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Science

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1994

HUMAN RESOURCE DEVELOPMENT GROUP
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
NEW DELHI

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Volume II

PHYSICAL SCIENCE

REVISED EDITION

1994

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HUMAN RESOURCE DEVELOPMENT GROUP
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
NEW DELHI

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FOREWORD

The Council of Scientific and Industrial Research (CSIR) is an autonomous national agency of the Government of India for conducting scientific and industrial research on important problems in-house. Its 40 research laboratories are of multidisciplinary nature, organised to provide technologies of regional and national interest and to generate new knowledge of basic and applied value.

About 8000 active research scientists and about 11000 supporting staff organised in many teams are working on problems relating to affordable drugs and processed food, better communication and transportation, improved materials, instruments and building technology. Many of the CSIR scientists have done pioneering work in their areas of research and a substantial number of patents, both in India and abroad, have been taken. A large number of the technologies developed in the CSIR laboratories are in use by the industry and a variety of goods based on them are in national and international markets. In addition, the industry, is being provided a variety of services required by them. CSIR's S&T manpower is well trained and therefore their consultancy services are being sought by the industry in good measure. Besides, the scientists and engineers of CSIR also participate in the academic programmes of the universities. It is important that current information about the CSIR scientists is made available at one place so that their expertise may be utilised even better, according to the changing needs of the CSIR and country; with its availability the human resource of CSIR could be planned more systematically for its future research targets.

The first edition of the directory of CSIR Scientists was published in 1986. Its revised version was brought out in 1988. The present edition of the directory incorporates information about the characteristics of CSIR manpower as on 1 December 1994. It is hoped that the information contained in this directory will be variously useful.

I appreciate the efforts of the CSIR's Human Resource Development Group in producing the directory.

S.K. Joshi

New Delhi

(S K JOSHI)
Director General
CSIR

PREFACE

The Council of Scientific & Industrial Research (CSIR) is a multi-disciplinary and multi-dimensional R&D agency with a network of 40 national research laboratories/institutes and 81 regional research centres/survey laboratories/service & maintenance centres/zonal laboratories/ polytechnology transfer centres/ extension centres/field stations/experimental farms/field units, etc.

The total estimated strength of staff is around 25,000 and that of Scientists and Technical Officers is nearly 8,000.

HRD Group of CSIR, New Delhi is maintaining a data bank for Scientists and Technical Officers of CSIR HQ and of the 40 laboratories spread all over India. Information is collected through a proforma which gives their personal data, record of qualifications, employment and training, specialisations, present activities, languages known, countries visited, publications and patents taken, awards and distinctions and professional experience in years. This compilation has been found to be useful whenever the need arose to identify Scientists: as members of Selection Committees, for consideration for special projects, additional training or high level jobs, etc. Each Scientist/ Technical Officer was contacted with a view to obtaining his/her updated biodata. Efforts have been made to incorporate these changes in this revised edition. The Directory comprises six volumes, one each on Information Science, Physical & Earth Sciences, Chemical Sciences, Biological Sciences, Engineering Sciences and Speciality and Name index. The total strength of S&T officers covered in this Directory is 7974. It is hoped that R & D agencies and other organisations could find the Directory a useful source of reference.

A statistical profile of the CSIR Scientists and Technical Officers based on the information contained in the Directory will follow; and it will give data for being utilised as source material for Manpower Planning in the CSIR System.

(N R Rajagopal)
Head, Human Resource Development Group,
CSIR, New Delhi

NATIONAL PHYSICAL LABORATORY

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DR E S R GOPAL; (B. MAY 12, 1936),

DIRECTOR, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - MADRAS '55; M.A. PHYSICS - MADRAS '56; M.SC. PHYSICS - MADRAS '58; PH.D. PHYSICS - I.I.SC., BANGALORE '61.

SPECIALIZATIONS : CONDENSED MATTER PHYSICS; INSTRUMENTATION; STATISTICAL PHYSICS; METROLOGY; LOW TEMPERATURE PHYSICS.

EXPERIENCE : P.D.F., OXFORD, (U.K.), 1961-64; POOL OFFICER, ASSTT. PROFESSOR AND PROFESSOR, I.I.SC., BANGALORE, 1964-91; DIRECTOR, N.P.L. SINCE SEPTEMBER, 1991.

PRESENT ACTIVITIES : R & D MANAGEMENT; R&D IN METROLOGY.

LANGUAGES : TAMIL, KANNADA, HINDI, ENGLISH, FRENCH, GERMAN, RUSSIAN.

VISITED : U.K., U.S.A., GERMANY, FRANCE, CANADA, RUSSIA, POLAND, SWITZERLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 200, TECH. REPORTS-20, SCIENTIFIC BOOKS-5, ARTICLES-50, POPULAR SCIENCE BOOK-1, PATENTS TAKEN-3, PROCESSES DEVELOPED-1.

AWARDS & DISTINCTIONS : S S BHATNAGAR PRIZE, CSIR, 1978; SIR C V RAMAN AWARD, ACOUSTICAL SOCIETY OF INDIA, 1980; UGC NATIONAL LECTURESHIP, 1973-74; NRDC INVENTIONS PROMOTION AWARD, 1984; PRESIDENT, INDIAN CRYOGENICS COUNCIL, 1984-86; PRESIDENT, ACOUSTICAL SOCIETY OF INDIA, 1988-90; PRESIDENT, MASS SPECTROMETRY SOCIETY OF INDIA, 1991-94; PRESIDENT, INSTRUMENT SOCIETY OF INDIA, 1992-94; ISCA JUBILEE LECTURESHIP, 1992; DR B N SINGH MEMORIAL LECTURE, 1992; PRESIDENT, ULTRASONIC SOCIETY OF INDIA, 1993-95; INSA HOMI J BHABHA MEDAL, 1993; IACS LORD RIPPON MEMORIAL LECTURESHIP, 1993; FELLOW, INSTITUTE OF PHYSICS, U.K.; FELLOW, INDIAN ACADEMY OF SCIENCES; FELLOW, INDIAN NATIONAL SCIENCE ACADEMY; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD; FELLOW, ACOUSTICAL SOCIETY OF INDIA; FELLOW, METROLOGY SOCIETY OF INDIA; FELLOW, ULTRASONIC SOCIETY OF INDIA; FELLOW, INDIAN CRYOGENICS COUNCIL; FELLOW, MASS SPECTROMETRY SOCIETY OF INDIA; FELLOW, MATERIALS RESEARCH SOCIETY OF INDIA; LIFE MEMBER, INSTRUMENT SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES.- 40, APPLIED RES.-35, R&D MGMT.- -3, TEACHING-30, EDITING-10.

431

DR KRISHAN LAL; (B. MARCH 15, 1941),

SCIENTIST H, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS (SPECTROSCOPY) - AGRA '61; PH.D. SOLID STATE PHYSICS - DELHI '69.

SPECIALIZATIONS : SOLID STATE PHYSICS; MATERIALS SCIENCE; CRYSTAL GROWTH AND CHARACTERISATION; ADVANCED X-RAY TECHNIQUES FOR STUDY OF DEFECTS IN CRYSTALS; INSTRUMENTATION IN CRYSTAL GROWTH, X-RAY GENERATORS AND TECHNIQUES.

EXPERIENCE : LECTURER, D.A.V. COLLEGE, MUZAFFARNAGAR, 1961; LECTURER, MEERUT COLLEGE, MEERUT, 1961; LECTURER, K.M. COLLEGE, DELHI, 1961-62; S.S.A., SOLID STATE PHYSICS LABORATORY, DELHI, 1962-63; S.R.F., SCIENTIST B, SCIENTIST C, SCIENTIST EI, SCIENTIST EII, SCIENTIST F AND SCIENTIST G, N.P.L., 1963-90; (ALSO IBM INDIA RESEARCH FELLOW, IBM WATSON RESEARCH CENTRE NEW YORK, U.S.A., 1971-72; SENIOR VISITING SCIENTIST, TOKYO SENIOR GUEST SCIENTIST, PHYSIKALISCH - TECHTISCHE BUNDESAN STALT, BRAVNSCHWEIG, W.GERMANY, 1980-83); SCIENTIST H, N.P.L. SINCE APRIL, 1990.

PRESENT ACTIVITIES : COORDINATION OF ACTIVITIES IN MATERIALS CHARACTERISATION AND STANDARD REFERENCE MATERIALS RESEARCH IN DIFFRACTION AND TOPOGRAPHY STUDIES; RESEARCH IN CRYSTAL GROWTH, LATTICE IMPERFECTIONS, HIGH RESOLUTION X-RAY DIFFRACTION AND TOPOGRAPHY STUDIES.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH, GERMAN.

VISITED : U.S.A., JAPAN, U.S.S.R., HUNGARY, W. GERMANY, CANADA, ITALY, E.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 85, PATENTS TAKEN - 3, PATENTS FILED - 9, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR X-RAY TOPOGRAPHY, 1975; NRDC REPUBLIC DAY AWARD, 1977; NPL AWARD FOR LOW-ANGLE X-RAY SCATTERING, 1978; FELLOW, INDIAN NATIONAL SCIENCE ACADEMY, 1984; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1990; CONSULTANT, INTERNATIONAL UNION OF CRYSTALLOGRAPHY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 29, APP. RES. - 22, DESIGN - 20, TECH. DEV. - 20, R & D MGMT. - 20, SURVEY OF NATURAL RESOURCES - 4, PLANNING - 20, ADMN. - 20, COMPUTER PROCESSING - 20.

432

DR B S MATHUR; (B. JULY 1, 1941),

SCIENTIST G, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '57; M.SC. PHYSICS - ALLAHABAD '59; PH.D. PHYSICS (MASERS) - HARVARD UNIVERSITY, U.S.A. '66.

SPECIALIZATIONS : ATOMIC PHYSICS; SOLID STATE PHYSICS; TIME & FREQUENCY STANDARDS.

EXPERIENCE : POST-DOCTORAL FELLOW, COLUMBIA UNIVERSITY, U.S.A., 1966-68; LECTURER AND ASSISTANT PROFESSOR, I.I.T., KANPUR, 1968-73; SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, N.P.L., 1973-90; SCIENTIST G, N.P.L. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A., U.S.S.R., SWITZERLAND, AUSTRALIA, FRANCE, W. GERMANY, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 15, SCIENTIFIC BOOKS - 5, ARTICLES - 20.

AWARDS & DISTINCTIONS : NPL AWARD, 1980; FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA, 1980; FELLOW, METROLOGY SOCIETY OF INDIA, 1984; SENIOR MEMBER, INSTITUTION OF ELECTRONICS & ELECTRICAL ENGINEERS, USA, 1985; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1986

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 8, R & D MGMT. - 14, TEACHING - 5.

433

DR A V NARLIKAR; (B. MARCH 31, 1940),

SCIENTIST G, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '58; M.SC. PHYSICS - B.H.U. '60; PH.D. PHYSICS (SUPERCONDUCTIVITY) - COMBRIDGE UNIVERSITY, U.K. '65.

SPECIALIZATIONS : SUPERCONDUCTIVITY AND SUPERCONDUCTING MATERIALS - MICROSTRUCTURAL EFFECTS IN SUPERCONDUCTORS; DEFECT SOLID STATE.

EXPERIENCE : PROFESSOR AND HEAD, PHYSICS DEPARTMENT, SHIVAJI UNIVERSITY, KOLHAPUR, 1969-72; READER, T.I.F.R., BOMBAY, 1972-73; SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, N.P.L., 1973-90; SCIENTIST G, N.P.L. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D IN SUPERCONDUCTIVITY AND HIGH TEMPERATURE SUPERCONDUCTIVITY.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.K., SWITZERLAND, W. GERMANY, CHINA, IRAN, CZECHOSLOVAKIA, U.S.S.R., FRANCE, BELGIUM, SPAIN.

PUBLICATIONS & PATENTS : RES. PAPERS - 150, SCIENTIFIC BOOKS - 1, EDITED VOLUMES PUBLISHED - 6.

AWARDS & DISTINCTIONS : TAIT MEMORIAL PRIZE FOR PHYSICS, CAMBRIDGE UNIVERSITY, 1963; MEMBER, EUROPEAN PHYSICAL SOCIETY (GENEVA), 1970; FELLOW, INSTITUTE OF PHYSICS, U.K., 1974; FELLOW, INSTITUTION OF METALLURGISTS (LONDON), 1975; FELLOW, INDIAN CRYOGENICS COUNCIL, 1976; A N CHATTERJEE MEMORIAL MEDAL, 1977; NPL AWARD, 1977; MERIT SCROLL, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1979; FELLOW, INDIAN ACADEMY OF SCIENCES, 1988; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 31, APP. RES. - 22.

434

DR VIJAY KUMAR AGRAWAL; (B. FEBRUARY 1, 1939),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS - AGRA '61; PH.D. ELECTRICAL ENGINEERING -- NAGOYA UNIVERSITY, JAPAN '75.

SPECIALIZATIONS : MICROWAVE COMPONENTS; STANDARDS & MEASUREMENTS.

EXPERIENCE : LECTURER, GOVERNMENT COLLEGE, RAMPUR, 1961-64; LECTURER, GOVERNMENT COLLEGE, NAINITAL, 1964; S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1964-91; SCIENTIST F, N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, JAPANESE, RUSSIAN.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 12, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 4.

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD AWARD (TWICE); NPL AWARD (TWICE); SIR J C BOSE AWARD FOR BEST PAPER, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 20, TEACHING - 3, STANDARDS & MEASRUEMENT - 12.

435

DR J R ANAND; (B. MARCH 10, 1940),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG.) MECHANICAL - B.H.U. '61; M.SC. (ENGG.) MECHANICAL - DELHI '77; PH.D. MECHANICAL ENGINEERING (MANUFACTURING ANALYSIS) - I.I.T., DELHI '87.

SPECIALIZATIONS : SCIENTIFIC INSTRUMENTATION.

EXPERIENCE : ASSISTANT PRODUCTION MANAGER, M/S KASHMIR CERAMICS LTD., KOTHUN, J & K, 1962-64; (ALSO TRAINING IN GRAVITY DIE CASTING, E. GERMANY, 1962); SITE ENGINEER, M/S CANNON DUNKERLY & CO., NEW DELHI, 1964-65; ASSOCIATE INSTRUCTOR, INDO-SWISS TRAINING CENTRE, CHANDIGARH, 1965-66; SCIENTIST B, R.R.L., JAMMU, 1966-69; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1969-91; SCIENTIST F, N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : WORKSHOP TECHNOLOGY, FABRICATION AND DESIGN.

LANGUAGES : DOGRI, HINDI, ENGLISH.

VISITED : E.GERMANY, W.GERMANY

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 1, PATENTS TAKEN - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DESIGNING, FABRICATING AND ESTABLISHING A SODAR, 1975; NPL AWARD FOR DESIGNING AND FABRICATING OF A HELIUM-NEON LASER, 1978; NPL AWARD FOR THE DEVELOPMENT AND INSTALLATION OF A NEW FACILITY ON MICROWAVE RADIOMETERS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, TECH.DEV. & MECH PRODUCTION -15

436

SHRI G K ARORA; (B. APRIL 4, 1935),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '54; M.SC. PHYSICS - DELHI '56; M.A. HISTORY- PANJAB '58; ASSOCIATESHIP IN DOCUMENTATION RESEARCH & TRAINING - D.R.T.C., BANGALORE (I.S.I., CALCUTTA) '63.

SPECIALIZATIONS : RESEARCH PLANNING AND PROJECT MANAGEMENT; REPORT WRITING; EDITING; SCIENTIFIC DOCUMENTATION & REPROGRAPHY.

EXPERIENCE : ASSISTANT MICROPHOTOGRAPHIST (GR. II), NATIONAL ARCHIVES OF INDIA, NEW DELHI, 1956-61; SENIOR DOCUMENTATION ASSISTANT AND SCIENTIST B, INSDOC, NEW DELHI, 1961-66; SCIENTIST C, C.S.I.O., CHANDI-

GARH, 1966-72; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1972-90; SCIENTIST F, N.P.L. SINCE MARCH, 1990.

PRESENT ACTIVITIES : PROJECT PLANNING, BUDGETING AND COSTING; INFORMATION DISSEMINATION; ORGANISATION OF DATA - MANPOWER/PROJECT.

LANGUAGES : HINDI, ENGLISH.

VISITED : NEPAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 1, ARTICLES - 2, COMPILATION OF REFERENCE BOOKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, TEACHING - 2, TECHNO-ECONOMIC SURVEYS - 7, PLANNING - 24, EDITING - 24, DOCUMENTATION - 11, REPROGRAPHY - 5, TECHNICAL REPORT WRITING - 24.

437

DR O P BAHL; (B. OCTOBER 5, 1939),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '60; M.SC. PHYSICS - GUJARAT '63; PH.D. SOLID STATE PHYSICS - GUJARAT '66.

SPECIALIZATIONS : CARBON FIBRES; CRYSTAL GROWTH; THIN FILMS; CARBON-CARBON COMPOSITES.

EXPERIENCE : POST-DOCTORAL FELLOW, UNIVERSITY COLLEGE OF NORTH WALES, U.K., 1967-69; POOL OFFICER (CSIR), N.P.L., 1969-70; LECTURER, PANJAB UNIVERSITY, 1970-71; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1971-90; (ALSO TRAINING IN CARBON FIBRES, UNDER UNDP, U.K., 1976; AND CHIEF TECHNICAL ADVISER, BRAZIL, 1981-82); SCIENTIST F, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN CARBON, CARBON FIBRES AND CARBON-CARBON COMPOSITES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.K., W. GERMANY, JAPAN, BRAZIL, FRANCE, AUSTRIA, BULGARIA, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 90, PATENTS TAKEN - 2, PATENTS FILED - 3, PROCESSES DEVELOPED - 4.

AWARDS & DISTINCTIONS : NPL AWARD, 1978; CSIR TECHNOLOGY AWARD, 1990; MRSI AWARD, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 18, PILOT PLANT - 1, TEACHING - 1.

438

DR SUBHAS CHANDRA; (B. JANUARY 6, 1940),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '57; M.SC. PHYSICS - ALLAHABAD '59; PH.D. PHYSICS - BOSTON UNIVERSITY, U.S.A. '67.

SPECIALIZATIONS : DISPLAY DEVICES; MOSSBAUER SPECTROSCOPY; LIQUID CRYSTALS; ELECTRONIC MATERIALS; PHOTONICS; MATERIALS SCIENCE.

EXPERIENCE : TEACHING FELLOW AND RESEARCH ASSISTANT, BOSTON UNIVERSITY, U.S.A., 1963-67; RESEARCH ASSOCIATE, WRIGHT LABORATORY, U.S.A., 1967-70; VISITING ASSISTANT PROFESSOR AND RESEARCH ASSOCIATE, LOUISIANA STATE UNIVERSITY, U.S.A., 1970-71; POOL OFFICER (CSIR), SCIENTIST C AND SCIENTIST EII, N.P.L. 1972-90; SCIENTIST F, N.P.L. SINCE DECEMBER. 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 63, TECH. REPORTS - 7, PATENTS TAKEN - 6, PATENTS FILED - 1, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ELECTROOPTICAL AND THERMAL LIQUID CRYSTAL DISPLAY DEVICES, 1975.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 18, TECH. DEV. - 10, TEACHING - 2.

439

DR BIJOY KISHORE DAS; (B. MAY 1, 1945),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.TECH. METALLURGY - I.I.T., KHARAGPUR '65; M.S. METALLURGY - UNIVERSITY OF ILLINOIS, U.S.A. '67; PH.D. METALLURGY - UNIVERSITY OF ILLINOIS, U.S.A. '71.

SPECIALIZATIONS : METALLURGY; ELECTRONIC CERAMICS; SEMICONDUCTORS; SOLAR CELLS.

EXPERIENCE : POOL OFFICER (CSIR), SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1971-88; SCIENTIST F, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN MATERIALS SCIENCE.

LANGUAGES : ORIYA, HINDI, ENGLISH, FRENCH.

VISITED : U.S.A., FRANCE, TURKEY, U.K., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 80, TECH. REPORTS - 13, BOOKS - 1, PATENTS FILED - 2, PROCESSES DEVELOPED - 6, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 9, APP. RES. - 20, PILOT PLANT - 7, R & D MGMT. - 16.

440

SHRI M K DASGUPTA; (B. NOVEMBER 10, 1936),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG.) MECHANICAL - B.H.U. '61.

SPECIALIZATIONS : CALIBRATION OF FORCE MEASURING DEVICES AND TESTING MACHINES; TESTING OF ENGINEERING MATERIALS; FORCE STANDARDS; HARDNESS STANDARDS.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1961-87; SCIENTIST F, N.P.L. SINCE DECEMBER. 1987.

PRESENT ACTIVITIES : MAINTENANCE OF FORCE STANDARDS; TESTING OF ENGINEERING MATERIALS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., W. GERMANY, E. GERMANY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 5, TESTING - 5, MAINTENANCE OF STANDARD OF FORCE - 15, DEVELOPMENT OF STANDARD OF HARDNESS - 4.

441

SHRI S C GARG; (B. JANUARY 5, 1946),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '64; M.SC. PHYSICS - MEERUT '67; M.SC. (TECH.) ELECTRONICS - B.I.T.S., PILANI '69.

SPECIALIZATIONS : BALLOON, ROCKET AND SATELLITE BORNE PAYLOAD INSTRUMENTATION; SPACE PAYLOADS FOR AERONOMY SCIENCE STUDIES.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1969-90; SCIENTIST F, N.P.L SINCE DECEMBER, 1990.

PRESENT ACTIVITIES : R & D IN ELECTRONICS; DESIGN, DEVELOPMENT AND FABRICATION OF RPA SATELLITE PAYLOAD FOR IONOSPHERIC STUDIES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18.

442

DR P K GHOSH; (B. DECEMBER 1, 1940),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '58; M.SC. PURE PHYSICS - CALCUTTA '61; M.SC. SOLID STATE PHYSICS - LONDON UNIVERSITY, U.K. '64; PH.D. SOLID STATE PHYSICS - LEICESTER UNIVERSITY, U.K. '68.

SPECIALIZATIONS : SOLID STATE PHYSICS; MATERIALS SYNTHESIS.

EXPERIENCE : SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1969-91; SCIENTIST F, N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF INDUSTRIAL SULPHIDE PHOSPHORS, 1972; NRDC INVENTIONS PROMOTION AWARD, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 18, DESIGN - 8, PILOT PLANT - 5, CONSTRUCTION - 2, TESTING - 18, QLTY. CONTROL - 17, PRODUCTION - 10.

443

DR PRAMOD KUMAR GUPTA; (B. JULY 2, 1935),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '53; M.SC. CHEMISTRY - LUCKNOW '55; PH.D. ANALYTICAL CHEMISTRY - DELHI '66.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY; ORGANOMETALLIC CHEMISTRY; ELECTRONIC MATERIALS.

EXPERIENCE : JUNIOR ANALYST, OFFICE OF PUBLIC ANALYST, U.P. GOVERMENT, LUCKNOW, 1956-58; J.S.A., S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1958-90; (ALSO HIGHER RESEARCH IN ANALYTICAL CHEMISTRY, APPLIED CHEMISTRY DEPTT., NATURAL RESEARCH COUNCIL, CANADA, 1971-72); SCIENTIST F, N.P.L. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : RESEARCH IN PREPRATION OF ULTRAPURE AND STANDARD REFERENCE MATERIALS (SRMS).

LANGUAGES : HINDI, ENGLISH.

VISITED : CANADA. U.S.A., U.K., W.GERMANY., CHINA.

PUBLICATIONS & PATENTS : RES. PAPERS - 44, TECH. REPORTS - 7.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF CHEMISTS (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 30, APP. RES. - 30, R & D MGMT. - 3.

444

DR K C JOSHI; (B. JANUARY 18, 1937),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - ALLAHABAD '57; D. PHIL. PHYSICS (SPECTROSCOPY) - ALLAHABAD '60.

SPECIALIZATIONS : SPECTROSCOPY; OPTICS AND OPTICAL RADIOMETRY; GLASS INSTRUMENTATION.

EXPERIENCE : ADVANCED TRAINING IN THE FIELD OF SPECTROSCOPY, U.S.A., 1961-64; ADVANCED TRAINING IN PHOTOMETRY AND RADIOMETRY, AUSTRALIA, 1964-67; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1970-88; SCIENTIST F, N.P.L. SINCE JULY, 1988.

PRESENT ACTIVITIES : R & D IN OPTICS AND RADIOMETRIC STANDARDS.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : U.S.A., AUSTRALIA, U.S.S.R., GERMANY, HOLLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 4, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 33, PILOT PLANT - 9.

445

DR K K MAHAJAN; (B. DECEMBER 12, 1939),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - J & K '57; M.SC. PHYSICS - B.H.U. '59; PH.D. IONOSPHERIC PHYSICS - B.H.U. '65.

QUALIFICATIONS : B.SC. - J & K '57; M.SC. PHYSICS - B.H.U. '59; PH.D. IONOSPHERIC PHYSICS - B.H.U. '65.

SPECIALIZATIONS : IONOSPHERIC AND SPACE PHYSICS; UPPER ATMOSPHERIC PHYSICS; RADIO WAVE PROPAGATION; PLANETARY ATMOSPHERES.

EXPERIENCE : J.S.A. AND S.S.A., N.P.L., 1959-65; POST-DOCTORAL RESEARCH ASSOCIATE, CORNELL UNIVERSITY, U.S.A., 1965-67; POST-DOCTORAL RESEARCH ASSOCIATE, NRC - NASA, U.S.A., 1967-69; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1969-86; SCIENTIST F, N.P.L. SINCE AUGUST, 1986.

PRESENT ACTIVITIES : RESEARCH IN IONOSPHERIC & SPACE PHYSICS AND PLANETARY ATMOSPHERES.

LANGUAGES : HINDI, URDU, ENGLISH.

VISITED : U.S.A., W. GERMANY, HUNGARY, FRANCE, NORWAY, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 72, TECH. REPORTS - 7.

AWARDS & DISTINCTIONS : FELLOW, INDIAN ACADEMY OF SCIENCES; FELLOW, INDIAN GEOPHYSICAL UNION; MEMBER, INDIAN NATIONAL COMMITTEE ON SPACE RESEARCH (INCOSPAR), 1975-81; MEMBER, INTERNATIONAL COMMITTEE ON SPACE RESEARCH (COSPAR) SUB-COMMISSION C-3 ON PLANETARY ATMOSPHERES SINCE 1980; NPL AWARD FOR OUTSTANDING RESEARCH ON UPPER IONOSPHERIC MODELLING, 1979; MEMBER, EDITORIAL BOARD, INDIAN JOURNAL OF RADIO & SPACE PHYSICS, 1986-88.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 31.

446

DR D C PARASHAR; (B. AUGUST 8, 1937),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - DELHI '57; M.SC. CHEMISTRY - DELHI '59; PH.D. CHEMISTRY - DELHI '68.

SPECIALIZATIONS : ATMOSPHERIC CHEMISTRY; ELECTROPHOTOGRAPHY; ELECTROSTATIC SPRAYING; DIFFUSION IN SOLIDS; ANALYTICAL CHEMISTRY.

EXPERIENCE : J.R.F., S.R.F., J.S.O., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1959-89; SCIENTIST F, N.P.L. SINCE JULY, 1989.

PRESENT ACTIVITIES : R & D IN CHEMISTRY, ANALYTICAL CHARACTERISATION OF MATERIALS WITH SPECIAL EMPHASIS ON ENVIRONMENTAL ASPECTS; EFFLUX STUDIES ON GREEN HOUSE GASES.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 4, PATENTS TAKEN - 11, PATENTS FILED - 11, PROCESSES DEVELOPED - 11, PROCESSES UNDER UTILISATION - 9.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ELECTRONIC PHOTOCOPYING MACHINE, 1970; NOMINATED FOR UNESCO SCIENCE PRIZE FOR DEVELOPMENT OF ELECTROSTATIC PHOTOCOPYING MACHINE; INVENTIONS PROMOTION BOARD AWARD FOR DEVELOPMENT OF PHOTOCONDUCTIVE PLATES FOR XEROGRAPHIC MACHINES; INVENTIONS PROMOTION BOARD AWARD FOR DEVELOPMENT OF ELECTROSTATIC CHARGING OF PHOTOCONDUCTIVE PLATES IN XEROGRAPHIC MACHINES; NPL MERIT CERTIFICATE FOR DEVELOPMENT OF ELECTROSTATIC PHOTOCOPYING MACHINE; INDIAN MERCHANTS' CHAMBER AWARD (A GOLD SHIELD) FOR DEVELOPMENT OF ELECTROSTATIC PHOTOCOPYING MACHINE, 1970.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 30, APP. RES. - 10, DESIGN - 10, TECH. DEV. - 10, R & D MGMT. - 10.

447

DR S B S S SARMA; (B. MAY 5, 1935),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. APPLIED PHYSICS - ANDHRA '59; PH.D. PHYSICS (RADIO ASTRONOMY) - I.I.SC., BANGALORE '65.

SPECIALIZATIONS : RADIO ASTRONOMY; SPACE PHYSICS; ELECTRONICS.

EXPERIENCE : SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.P.L., 1966-91; SCIENTIST F, N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MICROWAVE PROPAGATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 47, TECH. REPORT - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 19, OPERATION - 9, DESIGN - 6, CONSULTANCY - 4, TECH. DEV. - 11, R & D MGMT. - 26.

448

DR S K SHARMA; (B. SEPTEMBER 5, 1940),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS - AGRA '61; PH.D. PHYSICS - AGRA '67.

SPECIALIZATIONS : ELECTRON MICROSCOPY; THIN FILMS; VACUUM TECHNOLOGY; SOLAR ENERGY; MATERIALS SCIENCE.

EXPERIENCE : LECTURER, BAREILLY COLLEGE, BAREILLY, 1961; J.R.F., S.R.F., J.S.O./SCIENTIST A, SCIENTIST B AND SCIENTIST C, 1961-81; (ALSO HIGHER RESEARCH IN AMORPHOUS TO CRYSTALLINE TRANSITION IN ALLOYS AND ELECTRON MICROSCOPY, W.GERMANY, 1971-73 AND IN DEFECT STUDIES IN METAL FILMS, CHARACTERISATION OF SELECTIVE SURFACES AND SOLAR ENERGY, FRANCE, 1977-79; IN THE STUDY OF MICROSTRUCTURE OF CR - C FILMS, FRANCE, 1983-84); SCIENTIST EI AND SCIENTIST EII, N.P.L., 1981-90; SCIENTIST F, N.P.L. SINCE FEBURARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN MICROSTRUCTURES; HIGH RESOLUTION ELECTRON MICROSCOPY.

LANGUAGES : HINDI, ENGLISH, GERMAN, FRENCH.

VISITED : W.GERMANY, FRANCE, JAPAN, U.S.A., U.K., SINGAPORE, HONGKONG.

PUBLICATIONS & PATENTS : RES. PAPERS - 60.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES. AND TESTING - (TOTAL : 28 YEARS).

449

DR TUHI RAM TYAGI; (B. DECEMBER 24, 1936),

SCIENTIST F, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; M.SC. PHYSICS - WIRLESS & TELECOMMUNICATION - ALLAHABAD '59; PH.D. IONOSPHERIC PHYSICS - DELHI '69.

SPECIALIZATIONS : IONOSPHERIC PHYSICS; SPACE PHYSICS; ELECTRONICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1959-81; (ALSO SENIOR HUMBOLDT POST-DOCTORAL FELLOW ON SATELLITE BEACON STUDIES, MAX PLANCK INSTITUTE FOR AERONOMY, LINDAU, GERMANY, 1972-74 AND 1978; AND VISITING SCHOLAR ON SATELLITE BEACON STUDIES, UNIVERSITY OF ILLINOIS, U.S.A., 1980-81); SCIENTIST EI AND SCIENTIST EII, N.P.L., 1981-91 SCIENTIST F, N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, FRANCE, ITALY, U.S.A, ARGENTINA, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 105, TECH. REPORTS - 16.

AWARDS & DISTINCTIONS : NPL AWARD, 1976; NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 6, DESIGN - 5.

450

SHRI A K AGARWAL; (B. FEBRUARY 8, 1943),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL - ROORKEE '64.

SPECIALIZATIONS : SOLAR THERMAL SYSTEMS; HIGH PRESSURE TECHNOLOGY.

EXPERIENCE : S.R.F., C.S.I.R., 1964-67; SCIENTIST B AND SCIENTIST C, N.P.L., 1964-81; SCIENTIST EI, N.P.L., 1981-87; SCIENTIST EII, N.P.L. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D IN HIGH PRESSURE TECHNOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : TECH. REPORTS - 9, PATENTS TAKEN - 2.

AWARDS & DISTINCTIONS : PRESIDENT OF INDIA AWARD FOR BEING AN OUTSTANDING EMPLOYEE (HANDICAPPED), 1971.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 12, TECH. DEV. - 10, CONSULTANCY - 1.

451

MRS SANTOSH AGGARWAL; (B. AUGUST 27, 1937),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.A. (HONS.) MATHEMATICS - DELHI '57; M.A. MATHEMATICAL STATISTICS - DELHI '59; CERTIFICATE IN GERMAN - MAX MULLER BHAVAN '62; CERTIFICATE IN RUSSIAN - DELHI '65.

SPECIALIZATIONS : MATHEMATICAL STATISTICS; IONOSPHERIC FORECASTING; MATHEMATICAL MODELLING OF THE UPPER ATMOSPHERE AND IONOSPHERE.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1959-90; (ALSO TRAINING IN SHORT-TERM FORECASTING TECHNIQUES, U.S.S.R. 1967; AND IN DATA EXCHANGE SYSTEMS AND SOLAR FORECASTING TECHNIQUES CZECHOSLOVAKIA AND U.K., 1981); SCIENTIST EII, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN RADIO SCIENCE WITH SPECIAL REFERENCE TO IONOSPHERIC AND SOLAR FORECASTING.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN, RUSSIAN.

VISITED : U.S.S.R., CZECHOSLOVAKIA, U.K., AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 11, DATA COMPILATION - 3, EDITING - 1.

AWARDS & DISTINCTIONS : NPL AWARD, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 31.

452

DR P BANERJEE; (B. MAY 10, 1949),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - BURDWAN '70; PH.D. PHYSICS (COMMUNICATION ELECTRONICS) - BURDWAN '76.

SPECIALIZATIONS : COMMUNICATION ELECTRONICS; DIGITAL ELECTRONICS AND INSTRUMENTATION.

EXPERIENCE : J.R.F. AND S.R.F., BURDWAN UNIVERSITY, W. BENGAL, 1971-76; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1976-90; SCIENTIST EII, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN MAINTENANCE OF TIME & FREQUENCY STANDARDS.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

VISITED : U.S.A., ITALY, MAURITIUS, ANTARCTICA, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 54, TECH.REPORTS - 8, SEMINAR PROC - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR "UPDATING TIME AND FREQUENCY STANDARDS", 1979; URSI YOUNG SCIENTIST FELLOWSHIP, 1984; MEMBER, AMERICAN GEOPHYSICAL UNION, 1987; FELLOW, METROLOGY SOCIETY OF INDIA, 1989; MEMBER, SCIENTIFIC EXPEDITION TO ANTARCTICA, 1987-88.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN AND TECH. DEV. - 19, CONSULTANCY - 10.

453

SHRI V K BATRA; (B. SEPTEMBER 14, 1936),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '55; M.SC. PHYSICS - DELHI '57; M.SC. MATHEMATICS - DELHI '61.

SPECIALIZATIONS : D C STANDARDS; HIGH VOLTAGE MEASUREMENTS; QUANTUM STANDARDS OF VOLTAGE AND RESISTANCE.

EXPERIENCE : J.S.A., S.S.A., J.S.O., S.S.O.II/SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1958-87; (ALSO TRAINING IN ELECTRICAL STANDARDS, CANADA, JAPAN, U.S.S.R., 1968-69, 1975 AND 1982 RESPECTIVELY; TRINING IN THE OPERATION OF HIGH FIELD 14-TESLA SUPERCONDUCTING MAGNET SYSTEM, U.K., 1983); SCIENTIST EII, N.P.L. SINCE FEBRUARY, 1987; (TRAINING IN HIGH VOLTAGE MEASUREMENTS IN WEST GERMANY. 1990).

PRESENT ACTIVITIES : R & D IN ELECTRICAL & ELECTRONIC STANDARDS, HIGH VOLTAGE MEASUREMENTS, JOSEPHSON VOLTAGE STANDARD AND QUANTUM HALL EFFECT.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH, GERMAN.

VISITED : CANADA, JAPAN, U.S.S.R., U.S.A., U.K., FRANCE, W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 8.

AWARDS & DISTINCTIONS : NPL AWARD FOR OUTSTANDING WORK IN ELECTRICAL AND ELECTRONIC STANDARDS.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 32, APP. RES. - 32.

454

DR RAGHUNATH BHATTACHARYYA; (B. SEPTEMBER 16, 1943),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - SAUGAR '63; M.SC. PHYSICS - RAVI SHANKAR '67; PH.D. PHYSICS - B.H.U. '71.

SPECIALIZATIONS : THIN FILM TECHNOLOGY; HIGH VACUUM TECHNOLOGY; LIQUID PHASE EPITAXY AND OPTOELECTRONICS; AMORPHOUS MATERIALS AND PHOTOVOLTAICS.

EXPERIENCE : LECTURER IN PHYSICS, M.P. GOVERNMENT, 1967-68; J.R.F., B.H.U., 1968-72; S.R.F., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1972-90; (ALSO POST-DOCTORAL STUDIES, JAPAN, 1976-78); SCIENTIST EII, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH, JAPANESE.

VISITED : JAPAN, W.GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, PATENTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 18, TECH. DEV. - 18, TEACHING - 1.

455

DR M M BINDAL; (B. JULY 13, 1935),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY. NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '55; M.SC. PHYSICS - DELHI '59; PH.D. PHYSICS - DELHI '74.

SPECIALIZATIONS : HIGH PRESSURE PHYSICS; SYNTHESIS OF SUPERHARD MATERIALS.

EXPERIENCE : DEMONSTRATOR. S.D. COLLEGE. MUZAFFARNAGAR, 1955-57; LECTURER, D.A.V. COLLEGE, MUZAFFARNAGAR, 1959-64; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENITIST EI, N.P.L., 1964-87; (ALSO HIGHER STUDIES ON SURFACE STRAIN MEASUREMENTS, FRANCE, 1967-68); SCIENTIST EII, N.P.L. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, U.S.A., U.K., SWEDEN, GERMANY, S.KOREA, JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, PROCESSES DEVELOPED - 3, TECH.REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., TECH. DEV. - 25, TEACHING - 7.

456

DR VIJAY TRIMBAK CHITNIS; (B. AUGUST 16, 1948),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - INDORE '67; M.SC. PHYSICS - INDORE '69; DOCTOR OF ENGG.(ELECTRICAL & ELECTRONICS) - NAGOYA UNIVERSITY, JAPAN '85.

SPECIALIZATIONS : OPTICS AND OPTOELECTRONICS; LASERS; OPTICAL FIBRE SENSORS; MICRODIMENSIONAL METROLOGY.

EXPERIENCE : DEMONSTRATOR, H.P.T. COLLEGE, NASIK, 1969-70; SCIENTIFIC ASSISTANT(A), DEPARTMENT OF ATOMIC ENERGY, GOVERNMEJT OF INDIA, 1970-73; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1973-89; (ALSO JAPANESE GOVT. SCHOLAR FOR STUDIES FOR DOCTOR OF ENGINEERING NAGOYA UNIVERSITY, JAPAN, 1981-86). SCIENTIST EII, N.P.L. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH, JAPANESE.

VISITED : JAPAN, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 9, ARTICLES - 2, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF AN IODINE STABLISED HE-NE LASER.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, DESIGN - 8, TECH. DEV. - 8, CONSULTANCY - 2, CONSTRUCTION - 3, TESTING - 4, SURVEY OF NATURAL RESOURCES - 4, PLANNING - 5, TECHNOLOGY TRANSFER - 3, COMPUTER PROCESSING - 2.

457

SHRI VASANT D DANDAWATE; (B. MARCH 10, 1937),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; M.SC. PHYSICS - VIKRAM '60; PH.D PHYSICS - DELHI '84 -

SPECIALIZATIONS : LASER PHYSICS; LENGTH METROLOGY; ELECTRONICS; INSTRUMENTATION (LASER).

EXPERIENCE . J.S.A., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1960-88; (ALSO WORKED ON LASERS AT SOUTHAMPTON UNIV . U.K., 1971-72; AR-ION AND TUNABLE DYE LASERS AT LEXEL CORPN. USA, 1982; HIGH RESOLUTION SPECTROSCOPY, USSR, 1986; STABILISED LASER. USSR, 1989; LENGTH STANDARD. GERMANY, 1991); SCIENTIST EII, N.P.L. SINCE JUNE, 1988.

PRESENT ACTIVITIES : R & D IN LENGTH STANDARDS/LASERS.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.K., U.S.A., U.S.S.R., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, PROCESSES DEVELOPED - 2, TECH.REPORTS - 5, ARTICLES - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF LASERS, 1973; NPL AWARD FOR THE DEVELOPMENT OF IODINE STABILISED LASERS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. - 4, TECH. DEV. - 10, TESTING - 5, DESIGN - 2, R & D MANAGEMENT - 10.

458

SHRI S M DHAWAN; (B. JANUARY 15, 1945),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '64; M.SC. PHYSICS - SARDAR PATEL UNIVERSITY '67; B.LIB.SC. - DELHI '68; M.LIB.SC. - STATE UNIVERSITY OF NEW YORK AT BUFFALO, USA '81.

SPECIALIZATIONS : LIBRARY INFORMATION PROCESSING AND MANAGEMENT.

EXPERIENCE : PROFESSIONAL ASSISTANT, ASSOCIATION OF INDIAN UNIVERSITIES, 1968-70; LIBRARY & DOCUMENTATION OFFICER AND LIBRARIAN, N.P.L., 1970-81; SCIENTIST EI, N.P.L., 1981-86; SCIENTIST EII, N.P.L. SINCE APRIL, 1986.

PRESENT ACTIVITIES : ORGANISATION AND MANAGEMENT OF LIBRARY; DEVELOPMENT OF LIBRARY SOFTWARE.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : LIBRARY MGMT. - 21.

459

DR A K GUPTA; (B. JANUARY 1, 1944),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. PHYSICS - B.H.U. '64; PH.D. SOLID STATE PHYSICS - CASE WESTERN RESERVE UNIVERSITY, U.S.A. '71.

SPECIALIZATIONS : CRYOGENICS; JOSEPHSON TUNNELLING; SUPERCONDUCTIVITY; THIN FILM TECHNOLOGY; VACUUM TECHNOLOGY; HIGH TC SUPERCONDUCTIVITY; SQUIDS; VOLTAGE STANDARDS.

EXPERIENCE : LECTURER AND J.R.F., B.H.U., 1964-67; GRADUATE FELLOW AND RESEARCH ASSOCIATE, CASE WESTERN RESERVE UNIVERSITY, U.S.A., 1967-73; POOL OFFICER (CSIR), B.H.U., 1973-74; SCIENTIFIC OFFICER AND SENIOR SCIENTIFIC OFFICER, B.H.E.L. (R&D), 1974-77; SCIENTIST C AND SCIENTIST EI, N.P.L., 1973-88; (ALSO HIGHER RESEARCH ON JOSEPHSON JUNCTIO SQUIDS, U.K., 1983); SCIENTIST EII, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., U.K., JAPAN, U.S.S.R., ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 100, REPORTS - 2, BOOK - 1.

AWARDS & DISTINCTIONS : MERIT SCROLL FOR DEVELOPMENT OF SUPERCONDUCTING MAGNET, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1979; FOUNDER FELLOW, INDIAN CRYOGENICS COUNCIL, CALCUTTA; A N CHATTERJEE MEMORIAL AWARD FOR DEVELOPMENT OF HIGH TC SQUIDS, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23, APP. RES. - 15, TECH. DEV. - 3, TEACHING - 9.

460

SHRI ANIL KUMAR GUPTA; (B. APRIL 2, 1951),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL - OSMANIA '73; PH.D. MECHANICAL ENGINEERING - DELHI '87.

SPECIALIZATIONS : MATERIALS SCIENCE; PROCESSING OF COMPOSITES; FERROUS AND NON-FERROUS METALS AND ALLOYS AND THEIR CHARACTERISATION; HIGH PRESSURE TECHNOLOGY.

EXPERIENCE : ASSISTANT ENGINEER AND MECHANICAL ENGINEER (DEVELOPMENT), M/S STRAW PRODUCTS LTD., ORISSA, 1973-77; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1977-89; (ALSO HIGHER STUDIES ON HOT EXTRUSION OF METALS - STAINLESS STEEL, CUPRONICKEL, ALUMINIUM BRASS, UNDER COLOMBO PLAN, SHEFFIELD UNIVERSITY, U.K., 1978); SCIENTIST EII, N.P.L. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : SECONDARY PROCESSING OF METAL MATRIX COMPOSITES AND ALUMINIUM LITHIUM ALLOYS USING HOT EXTRUSION AND WARM FORGING TECHNIQUES AND ITS CHARACTERISATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., SOUTH KOREA, JAPAN, W.GERMANY, BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECHNICAL REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 14, TECH. DEV. - 17, PILOT PLANT - 5, R & D MGMT. - 12, IND. MANAGEMENT - 9, PLANNING - 17, ADMN. - 11.

461

DR ATMA RAM JAIN; (B. JULY 21, 1942),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

462

SHRI R S KHANDUJA; (B. APRIL 16, 1939),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. TELECOMMUNICATION AND ELECTRONICS - B.I.T.S ., PILANI '63; M.SC. (ENGG.) ADVANCED ELECTRONICS - DELHI '79.

SPECIALIZATIONS : ELECTRONIC COMPONENTS (MAGNETIC MATERIALS).

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1967-88; SCIENTIST EII, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, PATENTS TAKEN - 3, PATENTS FILED - 2, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF PROFESSIONAL FERRITES, 1970.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., PILOT PLANT, TESTING, QLTY. CONTROL AND INTERNATIONAL SCIENTIFIC COLLABORATION - (TOTAL: 26 YEARS).

463

DR PRAFULLA CHANDRA KOTHARI; (B. AUGUST 9, 1948),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - UDAIPUR '68; M.SC. PHYSICS - UDAIPUR '70; PH.D. MICROWAVES - DELHI '74.

SPECIALIZATIONS : MICROWAVE STANDARDS AND CALIBRATION.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1975-86; SCIENTIST EI, N.P.L. 1986-89; SCIENTIST EII, N.P.L. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : ESTABLISHMENT, MAINTENANCE AND UPDATING OF MICROWAVE STANDARDS OF POWER, FREQUENCY AND NOISE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 9, SCIENTIFIC BOOKS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE ESTABLISHMENT AND UP-DATING OF MICROWAVE STANDARDS, 1979; SIR J.C BOSE MEMORIAL AWARD FOR BEST PAPER ON MICROWAVE POWER, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 12, QLTY. CONTROL - 2, STANDARDS & CALIBRATION - 9.

464

DR ASHOK KUMAR; (B. MAY 5, 1951),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '67; M.SC. PHYSICS - I.I.T., DELHI '69; PH.D. PHYSICS - I.I.T., DELHI '73.

SPECIALIZATIONS : ULTRASONIC TRANSDUCERS, MATERIALS AND DEVICES; NONDESTRUCTIVE TESTING; STANDARDS.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI N.P.L., 1983-91, SCIENTIST EII, N.P.L. SINCE APRIL, 1991.

PRESENT ACTIVITIES : R & D; PILOT PLANT PRODUCTION.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., POLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 66, TECH. REPORTS - 7, PATENTS FILED - 1, TALKS DELIVERED - 11.

AWARDS & DISTINCTIONS : KRISHNAN MEMORIAL PRIZE FOR ULTRASONIC PROBES, 1979; NRDC AWARD FOR DEVELOPMENT OF CALIBRATION BLOCK FOR CHARACTERISATION OF SURFACE WAVE PROBES, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 19. DESIGN - 18, TECH. DEV. - 18, PILOT PLANT - 6, CONSULTANCY - 5, R & D MGMT. - 16, CONSTRUCTION - 11, TESTING - 13, QLTY. CONTROL - 13, MAINTENANCE - 13. PRODUCTION - 6, TEACHING - 4, TECHNOLOGY TRANSFER - 3, SALES MARKETING - 6, EDITING - 13.

465

SHRI C S PRASANNA KUMAR; (B. JUNE 3, 1946),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRICAL - MYSORE '66; M.E. POWER SYSTEM ENGINEERING - OSMANIA '68.

SPECIALIZATIONS : POWER SYSTEM ENGINEERING.

EXPERIENCE : ASSOCIATE LECTURER, REGIONAL ENGINEERING COLLEGE, TIRUCHIRAPALLI, 1968-71; ASSISTANT ENGINEER, UNIVERSITY OF AGRICULTURAL SCIENCE, BANGALORE, 1971-75; ENGINEER-SC, DEPARTMENT OF SPACE, GOVERNMENT OF INDIA, 1975-77; SCIENTIST C AND SCIENTIST EI, N.P.L. 1973-88; SCIENTIST EII, N.P.L. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : ELECTRICAL, A/C WORKS & MICROPROCESSORS, MICROPROCESSOR BASED INSTRUMENTATION.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING, ELECTRICAL & MICROPROCESSOR APPLICATIONS - (TOTAL : 19 YEARS).

466

SHRI NARENDRA KUMAR; (B. JANUARY 5, 1937),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '56; M.SC. PHYSICS - I.I.T., DELHI '68

SPECIALIZATIONS : SOLID STATE PHYSICS; ELECTROPHOTOGRAPHY AND ELECTROSTATICS; RELIABILITY OF SEMICONDUCTOR DEVICES; ELECTRON MICROSCOPY.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI N.P.L., 1959-90; SCIENTIST EII, N.P.L., SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, ARTICLES - 6, PATENTS TAKEN - 8, PATENTS FILED - 3, PROCESSES DEVELOPED - 17, PROCESSES UNDER UTILISATION - 5.

AWARDS & DISTINCTIONS : NPL AWARD, 1970; INDIAN MERCHANTS CHAMBER SHIELD; INVENTIONS PROMOTION BOARD AWARD; IMPORT SUBSTITUTION BOARD SHIELD.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, TECH. DEV. - 11, TECHNOLOGY TRANSFER - 9.

467

DR(MRS) D R LAKSHMI; (B. AUGUST 30, 1941),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '61; PH.D. GEOPHYSICS - OSMANIA '65.

SPECIALIZATIONS : HIGH FREQUENCY RADIO COMMUNICATION; SOLAR AND MAGNETIC ACTIVITY FORECASTING; IONOSPHERE-MAGNETOSPHERE INTERACTIONS; IONOSPHERIC COMMUNICATION.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI N.P.L., 1974-89; (HIGHER TRAINING IN IONOSPHERIC COMMUNICATION PREDICTIONS, UNDER COLOMBO PLAN AUSTRALIA, 1977-78 AND IN SOLAR FORECASTING TECHNIQUES, PARIS, FRANCE; ATTENDED A COURSE ON PHYSICS OF RADIO COMMUNICATION, INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE, ITALY; VISITED JAPAN UNDER INSA EXCHANGE PROGRAMME, 1988; ATTENDED THE INTERNATIONAL CONFERENCE 'SUNDIAL' AND SPACE ENVIRONMENTAL SERVICES CENTRE, USA, 1989); SCIENTIST EII, N.P.L. SINCE MAY, 1989; (ALSO VISITED USSR UNDER ILTP PROGRAMME, 1990)

PRESENT ACTIVITIES : RESEARCH IN IONOSPHERIC PHYSICS, SOLAR-TERESTRIAL PREDICTION AND RADIO COMMUNICATION.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

VISITED : AUSTRALIA, FRANCE, ITALY, U.S.A., U.S.S.R., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 58.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23, APP. RES. - 13, TEACHING - 1.

468

SHRI H P NARANG; (B. JUNE 15, 1944),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. CHEMICAL ENGINEERING - PANJAB '66; M.SC. CHEMICAL ENGINEERING - PANJAB '69.

SPECIALIZATIONS : LUMINESCENT MATERIALS AND DEVICES; ELECTRONIC MATERIALS; PILOT PLANT DESIGN; BASIC DESIGN ENGINEERING; PARTICLE SIZE ANALYSIS OF POWDERS.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI N.P.L., 1969-89; SCIENTIST EII, N.P.L. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : R & D OF LUMINESCENT MATERIALS AND DEVICES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, PATENTS FILED - 4, PROCESSES DEVELOPED - 10.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF PHOSPHORS, 1972; NRDC INVENTION AWARD ON INDEPENDENCE DAY, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, TECH. DEV. - 15, OPERATION - 12, BASIC DESIGN ENGG. - 16.

469

SHRI S K PHULL; (B. SEPTEMBER 15, 1939),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '60; M.SC. MATHEMATICS - AGRA '64; P.G. DIPLOMA IN LIBRARY SCIENCE - B.H.U. '61; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '70.

SPECIALIZATIONS : DOCUMENTATION AND REPROGRAPHY.

EXPERIENCE : LIBRARIAN, S.D.A., DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), SCIENTIST EI, N.P.L., 1966-89; SCIENTIST EII, N.P.L. SINCE JULY, 1989.

PRESENT ACTIVITIES : SCIENTIFIC DOCUMENTATION AND REPROGRAPHY.

LANGUAGES : HINDI, URDU, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 10, TREND REPORTS AND BIBLIOGRAPHIES - 75.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 24, REPROGRAPHY - 24.

470

DR M M PRADHAN; (B. FEBRUARY 10, 1938),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS - AGRA '61; PH.D. PHYSICS - NANCY UNIVERSITY, FRANCE '72; PH.D. PHYSICS - DELHI '73.

SPECIALIZATIONS : INFRARED SPECTROSCOPY; INFRARED DETECTORS AND SYSTEMS.

EXPERIENCE : LECTURER, S.S.V.I. COLLEGE, HAPUR, U.P., 1961-62; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1962-88; SCIENTIST EII, N.P.L. SINCE JUNE, 1988.

PRESENT ACTIVITIES : R & D IN INFRARED SPECTROSCOPY, INFRARED DETECTORS, SYSTEMS AND RADIOMETRY.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, U.S.A., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 52, PATENTS TAKEN - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A PYROELECTRIC INFRARED DETECTORS, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 29, APP. RES. - 29, DESIGN - 29, TECH. DEV. - 29, TEACHING - 1.

471

DR Y V RAMANAMURTY; (B. FEBRUARY 20, 1938),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - ANDHRA '57; M.SC. PHYSICS - ANDHRA '58; D.SC. PHYSICS - ANDHRA '64.

SPECIALIZATIONS : SPACE PHYSICS; RADIO WAVE PROPAGATION; ELECTRONICS; MIDDLE ATMOSPHERIC PHYSICS.

EXPERIENCE : POST-DOCTORAL RESEARCH, N.R.C., CANADA, 1964-66; POOL OFFICER (CSIR), SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1967-87; (POST-DOCTORAL RESEARCH IN SPACE PHYSICS, INSTITUT FUR PHYSIKALIS PHYSIKALISCHE, WELTRAUN FORSCHUNG, W. GERMANY, 1971-73, 1977, 1985-86; POST-DOCTORAL RESEARCH IN INTERNATIONAL REFERENCE IONOSPHERE MODELLING, UNIVERSITY OF FREIBURG, W.GERMANY, 1983 AND 1985); SCIENTIST EII, N.P.L. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : CANADA, W. GERMANY, BULGARIA, BELGIUM, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 42, ARTICLES - 20, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., CONSULTANCY, PLANNING AND COMPUTER PROGRAMMING - (TOTAL 32 YEARS).

472

DR ALOK CHANDRA RASTOGI; (B. JULY 15, 1949),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '66; M.SC. PHYSICS - LUCKNOW '68; M.TECH. APPLIED SOLID STATE PHYSICS - I.I.T., DELHI '70; PH.D. THIN FILM PHYSICS AND TECHNOLOGY - I.I.T., DELHI '74.

SPECIALIZATIONS : SOLAR CELLS; THIN FILM SCIENCE AND TECHNOLOGY; SILICIDES; SEMICONDUCTOR SURFACES AND INTERFACE; MICROELECTRONICS AND AMORPHOUS SEMICONDUCTORS.

EXPERIENCE : SCIENTIST B, N.P.L., 1974-79; (ALSO HIGHER TRAINING IN R & D ON SOLAR CELLS, W. GERMANY, 1977-78); SCIENTIST C AND SCIENTIST EI, N.P.L., 1979-90; (ALSO P.D. FELLOW, RESEARCH ON GA AS MATERIALS, UNIVERSITY OF ALBERTA, CANADA, 1983-84; SENIOR VISITING FELLOW, WORKED ON AMORPHOUS - SILICON DEVICES, CENTRE FOR CHEMICAL PHYSICS, UNIVERSITY OF WESTERN ONTARIO. CANADA, 1984-85; VISITING PROFESSOR, R & D ON SILICIDES. DEPTT.OF PHYSICS, UNIVERSITY OF WESTERN ONTARIO, CANADA, 1985-86); SCIENTIST EII, N.P.L. SINCE MARCH, 1990.

PRESENT ACTIVITIES : R & D IN SOLAR CELLS AND SEMICONDUCTOR-METAL-INSULATOR INTERFACES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, CANADA, FRANCE, U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 55, TECH. REPORTS - 16, PATENTS TAKEN - 2, PROCESSES DEVELOPED - 3.

AWARDS & DISTINCTIONS : NPL MERIT AWARD FOR DEVELOPMENT OF CDS THIN FILM SOLAR CELLS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 16.

473

DR S K SARKAR; (B. SEPTEMBER 26, 1936),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) CHEMISTRY - CALCUTTA '60; B.TECH. CHEMICAL ENGINEERING AND CHEMICAL TECHNOLOGY - CALCUTTA '62; M.TECH. CERAMIC ENGINEERING - CALCUTTA '63; M.S. CERAMIC ENGINEERING - UNIVERSITY OF WASHINGTON, U.S.A. '66; PH.D. CERAMIC ENGINEERING - UNIVERSITY OF WASHINGTON, U.S.A. '69.

SPECIALIZATIONS : CERAMICS; MATERIALS SCIENCE; CHEMICAL ENGINEERING.

EXPERIENCE : RESEARCH AND DEVELOPMENT ENGINEER, ZIRCONIUM CORPORATION OF AMERICA, U.S.A., 1969-70; POST-DOCTORAL RESEARCH ASSOCIATE,CASE WESTERN RESERVE UNIVERSITY, OHIO, U.S.A., 1970-72; SCIENTIST B, N.A.L., BANGALORE, 1972-75; SCIENTIST C AND SCIENTIST EI N.P.L., 1975-87; SCIENTIST EII, N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, PATENTS - 1, RESEARCH REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR CONTRIBUTION TOWARDS HOT JUNCTION BOX, 1981

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 9, R & D MGMT. - 4.

474

DR R G SHARMA; (B. AUGUST 9, 1941),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS - AGRA '61; PH.D. PHYSICS - DELHI '74.

SPECIALIZATIONS : CRYOGENICS; SUPERCONDUCTING MATERIALS; SUPERCONDUCTING MAGNETS; SUPERFLUIDITY AND ULTRALOW TEMPERATURES.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1964-88; (ALSO TRAINING IN

APPLLIED SUPERCONDUCTIVITY, USSR, 1973-74 AND 1982; IN PREPARATION OF INDUSTRIAL SUPER CONDUCTORS & ULTRA LOW TEMPERATURE TECHNIQUES, JAPAN, 1979-80; STUDIES ON SUPERFLUIDITY IN 3HE AT ULTRA LOW TEMPERATURES, LOW TEMPERATURE LABORATORY, HELSINKI, FINLAND, 1982); SCIENTIST EII, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN SUPERCONDUCTING MATERIALS AND SUPERCONDUCTING MAGNET SYSTEMS; DEVELOPMENT OF SUPER CONDUCTING MAGNETIC ORE SEPARATOR; BASIC STUDIES ON HIGH TC SUPERCONDUCTORS; CONSULTANCY TO BHEL ON SUPERCONDUCTING 5MW GENERATOR.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, U.K.

VISITED : U.S.S.R., JAPAN, FINLAND, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 93, BOOK REVIEWS - 2, REV.PAPERS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR BEST WORK ON SUPERCONDUCTIVITY, 1977; A N CHATTERJEE MEMORIAL AWARD FOR BEST CRYOGENIC INSTRUMENTATION, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. - 22, DESIGN - 22, TECH. DEV. - 13, TESTING - 8, TEACHING - 3.

475

DR VED RAM SINGH; (B. FEBRUARY 28, 1946),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRICAL - PUNJABI '68; PH.D. ELECTRONICS & INSTRUMENTATION - I.I.T., DELHI '74.

SPECIALIZATIONS : BIOMEDICAL ENGINEERING; TRANSDUCER TECHNOLOGY; ULTRASONICS; ELECTRONICS & INSTRUMENTATION; SILICON AND ULTRASONIC SENSORS AND TRANSDUCERS; MEDICAL ULTRASONICS; COMPUTERS IN BIOMEDICINE; ULTRASOUND SAFETY; ULTRASONIC ACOUSTICAL MEASUREMENTS; PROCESS CONTROLS; BIOSENSORS.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST C AND SCIENTIST EI, N.P.L., 1968-90; (ALSO POST-DOCTORAL RESEARCH IN BIOMEDICAL ENGINEERING, INSTITUTE OF BIOMEDICAL ENGINEERING, UNIVERSITY OF TORONTO, CANADA, 1974-77); SCIENTIST EII, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN BIOCHEMICAL ULTRASONICS AND INSTRUMENTATION.

LANGUAGES : HINDI, SANSKRIT, PUNJABI, ENGLISH, ITALIAN.

VISITED : CANADA, ITALY, U.S.A., AUSTRALIA, JAPAN, FINLAND, U.K., POLAND, GERMANY, NEHERLAND, MALAYASIA, SINGAPORE, HONGKONG, IRAN, SWITZERLAND, FRANCE, GREECE, DENMARK.

PUBLICATIONS & PATENTS : RES. PAPERS - 125, TECH. REPORTS - 16, ARTICLES - 20, PATENTS TAKEN - 12, PATENTS FILED - 3, PROCESSES DEVELOPED - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF SEMICONDUCTOR STRAIN GAUGE TRANSDUCERS, 1973; INSA YOUNG SCIENTIST AWARD FOR DEVELOPMENT OF SILICON TRANSDUCERS FOR MEDICAL AND INDUSTRIAL USES, 1974; DISTINGUISHED ALUMNI AWARD FOR BIOMED ENGG AND TRANSDUCER INSTRUMENTATION, THAPAR EDUCATION TRUST, 1983; ICMR YOUNG BIOMEDICAL SCIENTIST AWARD FOR DEVELOPMENT OF CLINICAL TRANSDUCERS AND INSTURMENTS, 1985; CERTIFICATE OF HONOUR, JAPAN SOCIETY OF ULTRASOUND IN MEDICINE, 1985; ELECTED COUNCILLOR OF ASIAN FEDERATION OF ULTRASOUND IN MEDICINE & BIOLOGY (TOKYO), 1985; SENIOR MEMBER, IEEE (USA); EXPERT PANEL MEMBER, WFUMB COMM ON ULTRASOUND SAFETY; BEST PAPER AWARD, INSTITUTION OF ENGINEERS (INDIA), 1989; FELLOW, INSTITUTION OF ENGINEERS (INDIA); FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA); FELLOW, METROLOGY SOCIETY OF INDIA; FELLOW, ULTRASONIC SOCIETY OF INDIA; FELLOW, ACOUSTICAL SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 21, DESIGN - 20, TEACHING - 12.

476

SHRI RAGHUNANDAN PRASAD SINGHAL; (B. JULY 12, 1947),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL - JODHPUR '69.

SPECIALIZATIONS : HYDROSTATIC EXTRUSION; TUBE ROLLING MILL; SLITTING LINES; SHEAR SPINNING; DIMENSION MEASUREMENT & CALIBRATION.

EXPERIENCE : ASSISTANT ENGINEER, PROMAIN LTD., FARIDABAD, 1970-73; DESIGN ENGINEER, TECHNOMAC ENGINEERS (P) LTD., NEW DELHI, 1973-74; DESIGN ENGINEER, JOTINDRA STEEL TUBES LTD., FARIDABAD, 1974-75; SCIENTIST C AND SCIENTIST EI, N.P.L., 1975-89; (ALSO ADVANCED TRAINING IN HYDROSTATIC EXTRUSION TECHNOLOGY, UNDER UNDP, U.S.A., 1975-76); SCIENTIST EII, N.P.L. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT, ERECTION AND COMMISSIONING; HEAT TREATMENT; PROJECT ENGINEERING; R & D AND STANDARDISATION IN DIMENSIONAL METROLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., U.K., HOLLAND, FRANCE, SWITZERLAND, GERMANY, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, PATENTS FILED - 2, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN AND APP. RES. - 20.

477

DR SATYA PRAKASH VARMA; (B. JANUARY 13, 1943),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '61; M.SC. PHYSICS - B.H.U. '63; M.S. PHYSICS - FAIRLEIGH DICKINSON UNIVERSITY, U.S.A. '69; PH.D. SOLID STATE PHYSICS - UNIVERSITY OF DELAWARE, U.S.A. '74.

SPECIALIZATIONS : X-RAY CRYSTALLOGRAPHY; MOLECULAR SPECTROSCOPY; INFRARED INSTRUMENTATION; INFRARED RADIOMETRY.

EXPERIENCE : J.R.F. (CSIR), B.H.U., 1963-65; S.S.A., N.P.L., 1965-67; HONOR'S RESEARCH FELLOW, FAIRLEIGH DICKIN-

SON UNIVERSITY, U.S.A., 1967-69; TEACHING ASSISTANT, NORTHEASTERN UNIVERSITY, U.S.A., 1969-70; TEACHING ASSISTANT, RESEARCH FELLOW AND POST-DOCTORAL FELLOW, UNIVERSITY OF DELAWARE, U.S.A., 1970-74; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1974-87; SCIENTIST EII, N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : R & D IN INFRARED REMOTE SENSING, SPECTROSCOPY AND RADIOMETRY.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : U.S.A., W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 10, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A FAR INFRARED SPECTRO-PHOTOMETER, 1976; NPL AWARD FOR CONTRIBUTION TO CARBON FIBRE WORK, 1977; NPL AWARD FOR DEVELOPMENT OF HOT AXEL BOX DETECTION SYSTEM FOR INDIAN RAILWAYS, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 25, APP. RES. - 24, DESIGN - 14, TECH. DEV. - 17, TESTING - 17, R & D MGMT. - 17, TEACHING - 4, EDITING - 14.

478

DR R S YADAVA; (B. DECEMBER 25, 1942),

SCIENTIST EII, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60; M.SC. PHYSICS - AGRA '63; PH.D. PHYSICS - AGRA '71.

SPECIALIZATIONS : MICROWAVE MEASUREMENTS; STANDARDS & CALIBRATION; DIELECTRIC STUDIES AT MICROWAVE FREQUENCIES; DESIGN & DEVELOPMENT OF MICROWAVE COMPONENTS.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.P.L., 1963-87; SCIENTIST EII, N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : R & D IN MICROWAVE STANDARDS AND CALIBRATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, RESEARCH REPORT - 11, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR STANDARDS AND CALIBRATION, 1979; FELLOW, METROLOGY SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 10, STANDARDS & CALIBRATION - 12.

479

DR R K AGGARWAL; (B. MAY 7, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '71; M.SC. PHYSICS - MEERUT '73; PH.D. PHYSICS - MEERUT '82.

SPECIALIZATIONS : CARBON TECHNOLOGY; PITCH-BASED CARBON FIBRES; GLASSY CARBON; SPECIAL PITCHES FOR CARBON-CARBON COMPOSITES; MESOPHASE PITCH; HIGH DENSITY-HIGH STRENGTH ISOTROPIC GRAPHITE.

EXPERIENCE : J.R.F, S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1975-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN CARBON TECHNOLOGY, GLASSY CARBON AND SPECIAL PITCHES AND HIGH DENSITY - HIGH STRENGTH ISOTROPIC GRAPHITE.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, REVIEW PAPERS - 3, PATENTS FILED - 3, TECHNOLOGY TRANSFERRED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF CARBON FIBRES FROM TEXTILE-GRADE POLYACRYLONITRILE PRECURSOR, 1977; CSIR TECHNOLOGY PRIZE IN MATERIALS TECHNOLOGY, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC & APP. RES. - 17.

480

SHRI VIJAY KUMAR AMAR; (B. NOVEMBER 3, 1937),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '56; B.SC. (HONS. SCHOOL) CHEMISTRY - PANJAB '58; M.SC. (HONS. SCHOOL) PHYSICAL CHEMISTRY - PANJAB '60.

SPECIALIZATIONS : POLYCRYSTALLINE SILICON, GAMMA IRON OXIDE AND MN-ZN FERRITE.

EXPERIENCE : DEMONSTRATOR, PANJAB UNIVERSITY, 1956-57 AND 1958-60; LECTURER, D.A.V. COLLEGE, JULLUNDUR, PUNJAB, 1960; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1960-84; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1984.

PRESENT ACTIVITIES : RESEARCH AND PRODUCTION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, PATENTS TAKEN - 1, PATENTS FILED - 1, PROCESSES DEVELOPED - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 17, DESIGN - 1, TESTING - 5, PRODUCTION - 4, TEACHING - 3.

481

DR R S ARORA; (B. JULY 22, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. ELECTRONICS - PANJAB '69; PH.D. RADIO ASTRONOMY - INDIAN INST. OF SCIENCE., BANGALORE '85.

SPECIALIZATIONS : MM-WAVE RADIOMETRY; MM-WAVE ELECTRONICS; RADIO ASTRONOMY; ATMOSPHERIC OZONE RESEARCH.

EXPERIENCE : S.S.A., N.P.L., 1969-70; S.S.A., SCIENTIST AND ASSOC PROFESSOR, R.R.I., BANGALORE, 1974-89; (ALSO VISITING APPOINTMENT AT NRAO, USA, JUNE, 1987-88); SCIENTIST EI, N.P.L. SINCE MAY, 1992.

PRESENT ACTIVITIES : MM-WAVE RADIOMETRY

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : ITALY, FRANCE, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 20.

482

DR A K BANDYOPADHYAY; (B. APRIL 18, 1954),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. SOLID STATE PHYSICS - I.I.T., KHARAGPUR '76; PH.D. SOLID STATE PHYSICS - I.I.SC., BANGALORE '81.

SPECIALIZATIONS : HIGH PRESSURE TECHNOLOGY; LOW TEMPERATURE PHYSICS; DISORDERED MATERIALS; ORGANIC CONDUCTORS.

EXPERIENCE : POST-DOCTORAL FELLOW, CENTRE FOR NUCLEAR STUDIES, FONTINAY-AUX-ROSES, FRANCE, 1982-83; SCIENTIST C, N.P.L., 1983-88; (ALSO ON DEPUTATION UNDER UNDP PROJECT, PTB, BRAUNSCHWEIG, W.GERMANY, APRIL-OCTOBER, 1985). SCIENTIST EI, N.P.L. SINCE AUGUST, 1988; (WORKED ON NPL-PTB EXCHANGE PROGRAMME, APRIL-JULY, 1990).

PRESENT ACTIVITIES : PRESSURE GAUGE STANDARDISATION AND STUDY OF PROPERTIES OF MATERIALS UNDER HIGH PRESSURE.

LANGUAGES : BENGALI, ENGLISH, FRENCH.

VISITED : ITALY, DENMARK, FRANCE, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 48.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 7, R & D MGMT. - 4.

483

DR P K BANERJEE; (B. DECEMBER 31, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.I.T.S., PILANI '67; M.SC. PHYSICS - B.I.T.S., PILANI '69; PH.D. PHYSICS - B.I.T.S., PILANI '74.

SPECIALIZATIONS : MICROWAVE ANTENNAS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1975-86; SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D IN SATELLITE COMMUNICATIONS AND ANOMALOUS MICROWAVE PROPAGATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 7.

AWARDS & DISTINCTIONS : NPL AWARD FOR RAIN ATTENUATION, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 12, TECH. DEV. - 12, CONSULTANCY - 7, OPERATION - 15, TESTING - 8, MAINTENANCE - 12, TEACHING - 2, COMPUTER PROCESSING - 9.

484

DR AMITABHA BASU; (B. MARCH 1, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; M.S. PHYSICS - CORNELL UNIVERSITY, U.S.A. '75; PH.D. PHYSICS - CORNELL UNIVERSITY, U.S.A. '79.

SPECIALIZATIONS : INTEGRATED OPTICS; FIBER OPTICS; THIN FILM OPTICS.

EXPERIENCE : SCIENTIST (SD), SPACE APPLICATIONS CENTRE, AHMEDABAD, 1980; S.S.O.II, I.I.T., DELHI, 1980; SCIENTIST (SD), SPACE APPLICATIONS CENTRE, AHMEDABAD, 1980-83; SCIENTIST C, N.P.L. 1983-88; SCIENTIST EI, N.P.L. SINCE JUNE, 1988.

PRESENT ACTIVITIES : R & D IN THIN FILM OPTICS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 9, DESIGN - 9.

485

DR SUKHWANT SINGH BAWA; (B. NOVEMBER 10, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '69; B.SC. (HONS.) PHYSICS - PANJAB '70; M.SC. PHYSICS - PANJAB '71; PH.D. PHYSICS - DELHI '75.

SPECIALIZATIONS : LIQUID CRYSTAL DISPLAY DEVICES; FERROELECTRICS; TRANSPARENT CONDUCTING COATINGS; FERROELECTRIC LIQUID CRYSTALS; OPTICAL SWITCHES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1975-86; SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.S.A., JAPAN, CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 2, PATENTS FILED - 1, PATENTS TAKEN - 2, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 15, TECH. DEV. - 7, CONSULTANCY - 1, TECHNOLOGY TRANSFER - 1.

486

DR GOPAL BHATIA; (B. APRIL 16, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. PHYSICS - DELHI '78.

SPECIALIZATIONS : CARBON TECHNOLOGY; PITCH-BASED CARBON FIBRES; MESOPHASE PITCH; GLASSY CARBON; SPECIAL PITCHES FOR CARBON-CARBON COMPOSITES; HIGH DENSITY-HIGH STRENGTH ISOTROPIC GRAPHITE.

EXPERIENCE : S.T.A. AND SCIENTIST B, N.P.L., 1974-82; (ALSO VISITED U.K., UNDER EXCHANGE PROGRAMME, 1979); SCIENTIST C, N.P.L. 1982-88; (ALSO HUMBOLDT FELLOW FOR STUDIES ON MESOPHASE IN PITCHES, W.GERMANY, 1983-84 AND UNIDO CONSULTANT OR PITCH BASED CARBON FIBRES IN SOUTH KOREA, 1987); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN CARBON TECHNOLOGY, GLASSY CARBONS, SPECIAL PITCHES AND HIGH-DENSITY-HIGH STRENGTH ISOTROPIC GRAPHITE.

LANGUAGES : SINDHI, HINDI, ENGLISH.

VISITED : U.K., W.GERMANY, FRANCE, S. KOREA.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, REVIEW PAPERS - 2, PATENTS FILED - 3, TECHNOLOGY TRANSFERRED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF CARBON FIBRES, 1977; CSIR TECHNOLOGY PRIZE IN MATERIALS TECHNOLOGY, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 18, DESIGN - 14, PILOT PLANT - 9.

487

DR A M BIRADAR; (B. OCTOBER 14, 1955),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MARATHWADA '74; M.SC. SOLID STATE PHYSICS - MARATHWADA '76; PH.D. PHYSICS - SARDAR PATEL '81.

SPECIALIZATIONS : THIN FILMS; SOLID STATE PHYSICS; LIQUID CRYSTALS.

EXPERIENCE : S.S.A. AND SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1980-90; (ALSO TRAINING IN FERROELECTRIC LIQUID CRYSTALS, UNDER DAAD FELLOWSHIP, W.GERMANY, 1987-89). SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D; BASIC AND APPLIED RESEARCH.

LANGUAGES : MARATHI, HINDI, KANNADA, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH.REPORT - 5, ARTICLES - 3, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 6, APP. RES. - 6.

488

DR J N BOHRA; (B. JULY 8, 1938),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '59; A.I.C. CHEMISTRY - INSTITUTION OF CHEMISTS (INDIA) '72; PH.D. APPLIED CHEMISTRY-BRUNEL UNIVERSITY, U.K. '81.

SPECIALIZATIONS : POROUS MATERIALS CHARACTERISATION; FINE POWDERS; CARBON TECHNOLOGY

EXPERIENCE : ASSISTANT TEACHER, EDUCATION DEPARTMENT, RAJASTHAN, 1959-60; J.R.A. AND S.R.A., RAJASTHAN CANAL PROJECT, RAJASTHAN, 1960-64; S.L.A., J.S.A., S.T.A. AND SCIENTIST C, N.P.L., 1964-86; (ALSO SPECIALISED TRAINING IN SURFACE AREA AND POROSITY OF CARBON FIBRES, UNDER UNIDO FELLOWSHIP, U.S.A., 1976 & ADVANCED TRAINING IN POROUS MATERIALS CHARACTERISATION, UNDER COLOMBO PLAN FELLOWSHIP, BRUNEL UNIVERSITY, U.K., 1981). SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D AND CHARACTERISATION OF MATERIALS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., U.K., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 7, ARTICLES - 5, BOOKS EDITED - 2, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2, PATENTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF A PROCESS FOR CARBON FIBRES FROM TEXTILE GRADE PAN PRECURSOR, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 17, CONSTRUCTION - 2, TESTING - 20, QLTY. CONTROL - 4, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 1.

489

DR B R CHAKRAVORTY; (B. AUGUST 1, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - CALCUTTA '69; M.SC. PHYSICS - I.I.T., KHARAGPUR '72; PH.D. PHYSICS - CALCUTTA '80.

SPECIALIZATIONS : SOLID STATE PHYSICS; VACUUM SCIENCE & TECHNOLOGY; SURFACE PHYSICS.

EXPERIENCE : J.R.F. AND S.R.F., I.A.C.S., CALCUTTA, 1972-76; S.S.A., SCIENITST B AND SCIENTIST C, N.P.L., 1976-86; (ALSO POST-DOCTORAL RESEARCH AND TRAINING, TECHNISCHE HOCHSCHULE, DARMSTADT, W. GERMANY, 1982-84); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1986; (ALSO VISITING SCIENTIST, MAX-PLANK INSTITUTE, STUTTGART, W.GERMANY, JULY-SEPTEMBER, 1990 UNDER DAAD-RE-INVITATION PROGRAMME).

PRESENT ACTIVITIES : R & D IN UHV TECHNOLOGY AND SURFACE PHYSICS.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 28, TECH. REPORTS - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF VACUUM STANDARD AND RELATED TECHNIQUES, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP, RES. - 14, DESIGN - 10, TECH. DEV. - 6.

490

DR SURESH CHAND; (B. MAY 10, 1954),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '74; M.SC. PHYSICS - DELHI '76; PH.D. PHYSICS - DELHI '81.

SPECIALIZATIONS : ELECTRONICS; XERORADIOGRAPHY; POLYMER PHYSICS; NEWER CONDUCTING AND PHOTONIC MATERIALS.

EXPERIENCE : J.R.F., S.R.F. AND P.D.F., C.S.I.R., 1976-82; SCIENTIST B AND SCIENTIST C, N.P.L., 1982-90; SCIENTIST EI, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN XERORADIOGRAPHY AND POLYMERIC MATERIALS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 33, SCIENTIFIC BOOKS - CONTRIBUTED ONE CHAPTER.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 5, DESIGN - 5, CONSULTANCY - 2.

491

SHRI HARISH CHANDER; (B. APRIL 9, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. CHEMICAL ENGINEERING - B.H.U. '69; PH.D. - I.I.T., NEW DELHI '90.

SPECIALIZATIONS : HIGH PURITY CHEMICALS AND CONNECTED MATERIALS/DEVICES; SPRAY REACTION/DRYING.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L.,1970-90; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PUBLICATIONS - 10, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NRDC INVENTIONS PROMOTION AWARD,1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., TECH. DEV. AND PILOT PLANT - 21.

492

DR MAHESH CHANDER; (B. JANUARY 1, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - A.M.U. '63; M.SC. PHYSICS - A.M.U. '65; D.I.I.T. APPLIED OPTICS - I.I.T., DELHI '67; PH.D. PHYSICS - I.I.T., DELHI '73.

SPECIALIZATIONS : METROLOGY; INSTRUMENTATION; OPTICS; VISION.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1968-87; (ALSO PROFESSOR, INDIAN INSTITUTE OF LEGAL METROLOGY, RANCHI, 1979-80); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D; CALIBRATION AND TESTING.

LANGUAGES : HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN AND TECH. DEV. - 18, TESTING - 9, R & D MGMT. - 1, IND.MGMT. - 1, TEACHING - 5, ADMN. - 1.

493

MRS URMIL DHAWAN; (B. MAY 25, 1939),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - PANJAB '63; M.SC. (HONS.) PHYSICS - PANJAB '64.

SPECIALIZATIONS : CRYSTALLOGRAPHY.

EXPERIENCE : RESEARCH ASSISTANT, I.A.R.I., 1964-66; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1966-90; SCIENTIST EI, N.P.L. SINCE FEBRUARY 1990.

PRESENT ACTIVITIES : CRYSTALLOGRAPHY; CHARACTERISATION OF SINGLE CRYSTALS AND POWDER MATERIALS USING XRD TECHNIQUES AND XRF TECHNIQUES.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21.

494

DR H N DUTTA; (B. JANUARY 5, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - JIWAJI '70; PH.D. SPACE PHYSICS - KURUKSHETRA '75.

SPECIALIZATIONS : ELECTRONICS; SPACE PHYSICS; TROPOSHERIC MONITORING; ENVIRONMENTAL EFFECTS ON COMMUNICATION.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1976-86; SCIENTIST EI, N.P.L. SINCE JANUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : ITALY., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 27, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN, TECH. DEV., MAINTENANCE AND EDITING - 20, CONSULTANCY - 15, R & D MGMT. -9, TEACHING - 1.

495

SHRI P K DUTTA; (B. DECEMBER 31, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRICAL - JADAVPUR '70; SHORT-TERM COURSE IN ULTRA-HIGH VACUUM TECHNOLOGY - B.A.R.C. '72.

SPECIALIZATIONS : ULTRA HIGH VACUUM TECHNOLOGY; CRYOGENIC THERMOMETRY.

EXPERIENCE : JUNIOR ENGINEER, M/S BASYNTH PVT. LTD., CALCUTTA, 1970-72; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1972-90; (ALSO WORKED ON CRYOGENIC THERMOMETRY - 30 K TO 0.5 K, N.P.L., U.K.); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN VACUUM STANDARDS, VACUUM TECHNIQUES AND LOW TEMPERATURE MEASUREMENTS, QUANTUM HALL RESISTANCE AND SUPERCONDUCTIVITY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

AWARDS & DISTINCTIONS : NPL AWARD, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, DESIGN - 5, TECH. DEV. - 5, PRODUCTION - 2.

496

DR SHRIKANT EKBOTE; (B. JUNE 3, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - VIKRAM '62; M.SC. PHYSICS - VIKRAM '68; PH.D. PHYSICS - SAUGAR '74

SPECIALI[illegible]S : SOLID STATE PHYSICS; SUPERCONDUCTIVITY [illegible]GNETISM; QUANTUM HALL EFFECT.

EXPERIEN[illegible] LECTURER, MODEL SECONDARY SCHOOL, BHOPAL, 1969-71; RESEARCH SCHOLAR, UNIVERSITY OF SAUGAR, 1971-73; S.R.F., P.D.F., SCIENTIST B AND SCIENTIST C, N.P.L. 1973-87; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN SUPERCONDUCTIVITY AND QUANTUM HALL EFFECT FOR STANDARDS.

LANGUAGES : HINDI, MARATHI, SANSKRIT, ENGLISH.

VISITED : W. GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. PAPERS - 3, SCIENTIFIC BOOKS - 1, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR OUTSTANDING WORK IN THE AREA OF SUPERCONDUCTIVITY, 1977; A N CHATTERJEE GOLD MEDAL FOR DEVELOPMENT OF SUPERCONDUCTING MAGNETS, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1977; MERIT SCROLL FOR DEVELOPMENT OF 70 KG MAGNETS, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 4, DESIGN - 4, TECH. DEV. - 4, CONSTN. - 4, OPERATION - 4, TEACHING - 2.

497

DR B S GERA; (B. MARCH 3, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. PHYSICS - DELHI '81.

SPECIALIZATIONS : ACOUSTIC REMOTE SENSING OF THE TROPOSPHERE.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1972-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN ACOUSTIC REMOTE SENSING OF THE TROPOSPHERE WITH SPECIAL REFERENCE TO COMMUNICATION, AVIATION AND AIR POLLUTION.

LANGUAGES : PUNJABI, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, JAPAN, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 46, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DESIGN, DEVELOPMENT AND FABRICATION OF A MONOSTATIC SODAR.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, DESIGN - 3, TECH. DEV. - 11, OPERATION - 14, MAINTENANCE - 8.

498

SHRI S C GERA; (B. MAY 1, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL ENGINEERING - B.I.T.S. '69.

SPECIALIZATIONS : DIE AND TOOL DESIGN; HYDROSTATIC EXTRUSION AND HIGH PRESSURE TECHNOLOGY; CRYOGENICS.

EXPERIENCE : J.S.A., S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1970-85; (ALSO ADVANCED TRAINING IN HYDROSTATIC EXTRUSION, UNDER U.N.D.P., U.S.A., 1975); SCIENTIST EI, N.P.L. SINCE APRIL, 1985.

PRESENT ACTIVITIES : RESEARCH AND DESIGN.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. AND DESIGN - 17.

499

DR A B GHOSH; (B. MARCH 20, 1949),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - NAGPUR '70; PH.D. SPACE PHYSICS - DELHI '76.

SPECIALIZATIONS : TROPOSPHERIC COMMUNICATION; IONOSPHERIC COMMUNICATION.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1971-86; SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : BASIC RESEARCH IN SPACE PHYSICS.

LANGUAGES : BENGALI, HINDI, MARATHI, ENGLISH.

VISITED : FRANC, JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

AWARDS & DISTINCTIONS : NPL AWARD FOR TROPOSPHERIC PROPAGATION, 1979; NPL AWARD FOR IONOSPHERIC PROPAGATION, 1980

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 7, CONSULTANCY - 7, COMPUTER PROCESSING - 9.

500

DR MAHENDRA KUMAR GOEL; (B. MAY 27, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. IONOSPHERIC PHYSICS - DELHI '79.

SPECIALIZATIONS : IONOSPHERIC PHYSICS; ELECTRONICS.

EXPERIENCE : RESEARCH FELLOW, S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1972-90; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, SCIENTIFIC REPORTS - 6, PAPERS PRESENTED - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR OUTSTANDING WORK ON 'UPPER IONOSPHERIC MODELLING', 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18.

501

SHRI ANIL KUMAR GOVIL; (B. SEPTEMBER 11, 1952),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '71; M.SC. PHYSICS - DELHI '73.

SPECIALIZATIONS : ELECTRICAL AND ELECTRONIC MEASUREMENTS.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-90, SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN A.C. & H.F. VOLTAGE AND CURRENT STANDARDS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR SIGNIFICANT CONTRIBUTION IN ELECTRONIC MEASUREMENTS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, DESIGN - 14, TECH. DEV. - 14, TESTING - 14.

502

SHRI A C GUPTA; (B. AUGUST 7, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '64; M.SC. PHYSICS WITH ELECTRONICS - AGRA '67.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; VACUUM STANDARDS; VACUUM INSTRUMENTATION.

EXPERIENCE : J.S.A.(II), HIMALYAN RADIO PROPAGATION UNIT, MINISTRY OF DEFENCE, DEHRADUN, 1968-69; J.S.A., N.P.L., 1969-72; S.S.A., C.E.E.R.I., PILANI, 1972-74; SCIENTIST B, I.I.P., DEHRADUN, 1974-76; SCIENTIST B AND SCIENTIST C, N.P.L., MAY, 1976-85; (ALSO TRAINING IN VACUUM STANDARDS, U.S.A., 1981-82); SCIENTIST EI, N.P.L. SINCE MAY, 1985.

PRESENT ACTIVITIES : R & D IN VACUUM INSTRUMENTATION AND VACUUM STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 9, PATENTS FILED - 2, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT IN VACUUM STANDARDS, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 22.

503

SHRI SURESH KUMAR GUPTA; (B. JULY 22, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '67; M.SC. PHYSICS - ALLAHABAD '69; PH.D. PHYSICS - ALLAHABAD '73; DIPLOMA IN GERMAN - ALLAHABAD '72.

SPECIALIZATIONS : ELECTRON PARAMAGNETIC RESONANCE; EXPERIMENTAL SOLID STATE PHYSICS; MAGNETISM; STUDY OF PARAMAGNETIC CENTRES IN INORGANIC COMPLEXES; LIQUID CRYSTALS; GLASSES; ELECTRONIC MATERIALS.

EXPERIENCE : J.R.F.(CSIR & UGC), S.R.F. AND P.D.F., CSIR, ALLAHABAD UNIVERSITY, 1969-74; LECTURER, KASHMIR UNIVERSITY, SRINAGAR, 1973-74; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1974-84; SCIENTIST EI, N.P.L. SINCE APRIL, 1984.

PRESENT ACTIVITIES : R & D IN MATERIALS SCIENCE.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 70.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 10, TESTING - 15, TEACHING - 4 MONTHS.

504

DR SUJIT KUMAR HALDER; (B. JULY 8, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - CALCUTTA '67; M.SC. PHYSICS - CALCUTTA '70; PH.D. PHYSICS - CALCUTTA '76.

SPECIALIZATIONS : DEFECT STUDIES OF MATERIALS BY X-RAY DIFFRACTION; X-RAY TOPOGRAPHY; CRYSTAL GROWTH.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1977-90; (ALSO ADVANCE RESEARCH ON CRYSTAL GROWTH OF HIGH TEMPERATURE MATERIAL, U.S.S.R., 1983); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : CHARACTERIZATION OF SINGLE CRYSTALS BY HIGH RESOLUTION X-RAY DIFFRACTOMETRY AND TOPOGRAPHY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

505

DR ASHOK KUMAR HANJURA; (B. MARCH 24, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - J & K '69; M.SC. PHYSICS - KASHMIR '71; PH.D. PHYSICS - KASHMIR '78.

SPECIALIZATIONS : ELECTRONICS; STANDARD TIME AND FREQUENCY DISSEMINATION AND MAINTENANCE.

EXPERIENCE : ENGINEERING ASSISTANT, A.I.R., 1976-79; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1979-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KASHMIRI, URDU, HINDI, ENGLISH.

VISITED : MAURITIUS, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, DESIGN - 10, TEACHING - 2, COMPUTER PROCESSING - 3, R & D MGMT. - 3, DOCUMENTATION - 5.

506

DR KAMLESH KUMAR JAIN; (B. FEBRUARY 4, 1949),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '67; D.I.I.T. EXPERIMENTAL SOLID STATE PHYSICS - I.I.T., DELHI '70; M.SC. PHYSICS - MEERUT '69; PH.D. SOLID STATE PHYSICS - I.I.T., DELHI '73.

SPECIALIZATIONS : SOLID STATE PHYSICS; ELECTROPHOTOGRAPHY; PRESSURE STANDARDS AND HIGH PRESSURE PHYSICS; POLYMER SCIENCE; ENVIRONMENTAL CONTROL.

EXPERIENCE : J.R.F., S.R.F. AND POST-DOCTORAL FELLOW, I.I.T., DELHI, 1970-74; SCIENTIST B AND SCIENTIST C, N.P.L., 1974-87; (ALSO RESEARCH ASSOCIATE, LIECESTERS POLYTECHNIC, U.K., 1975-76); SCIENTIST EI, N.P.L. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : R & D IN PRESSURE STANDARDS AND HIGH PRESSURE PHYSICS, POLYMER PHYSICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 62, ARTICLES - 5, PATENTS TAKEN - 4, PATENTS FILED - 1, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 15, R & D MGMT. - 6, TEACHING - 2.

507

DR S L JAIN; (B. JUNE 7, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - UDAIPUR '67; M.SC. PHYSICS - UDAIPUR '69; PH.D. IONOSPHERIC PHYSICS - UDAIPUR '74.

SPECIALIZATIONS : ELECTRONICS; IONOSPHERIC PHYSICS; ATMOSPHERIC STUDIES USING LASER TECHNIQUES AND LASER HETERODYNE SYSTEMS.

EXPERIENCE : LECTURER IN PHYSICS, UNIVERSITY OF UDAIPUR, RAJASTHAN, 1972-75: SCIENTIST B AND SCIENTIST C, N.P.L., 1975-86; (ALSO HIGHER STUDIES IN ATMOSPHERIC PHYSICS USING LASER TECHNIQUES, U.S.A., 1979-81), SCIENTIST EI, N.P.L. SINCE AUGUST, 1986.

PRESENT ACTIVITIES : R & D IN ATMOSPHERIC PHYSICS.

LANGUAGES : HINDI, KANNADA, ENGLISH, RUSSIAN.

VISITED : U.S.A., AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 60.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, DESIGN - 21, CONSTRUCTION - 21, OPERATION - 21, TESTING - 21, TEACHING - 6.

508

DR SUKHMAL CHAND JAIN; (B. FEBRUARY 18, 1949),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '68; M.SC. PHYSICS - DELHI '70; PH.D. PHYSICS - DELHI '83.

SPECIALIZATIONS : LIQUID CRYSTAL DIGITAL AND THERMAL DISPLAY DEVICES; FLAT GAS DISCHARGE DISPLAYS; THIN AND THICK FILMS; FERROELECTRIC, SUPERTWISTED AND COLOURED LIQUID CRYSTALS; POLYMER LIQUID CRYSTAL COMPOSITE DISPLAYS.

EXPERIENCE : RESEARCH FELLOW, SCIENTIST B AND SCIENTIST C, N.P.L., 1970-86; (ALSO ON DEPUTATION TO M/S PUNJAB DISPLAY DEVICES LTD., CHANDIGARH, 1978-79 AND DAAD FELLOW, W.GERMANY, 1981-83), SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D ON DIGITAL DISPLAYS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, U.K., U.S.S.R

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 7, PATENTS TAKEN - 3. PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF LIQUID CRYSTAL DISPLAY DEVICES, 1975.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 13, DESIGN - 3, TECH. DEV. - 5, PILOT PLANT - 1, CONSULTANCY - 1, R & D MGMT. - 1, TESTING - 1, QLTY. CONTROL - 1, PRODUCTION - 1, IND. MGMT. - 1.

509

DR SUSHIL KUMAR JAIN; (B. JANUARY 17, 1954),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '72; M.SC. PHYSICS - DELHI '74; PH.D. PHYSICS - DELHI '78.

SPECIALIZATIONS : SEMICONDUCTORS; POLYSILICON SOLAR CELLS; ULTRASONICS; UNDERWATER ACOUSTICS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1978-88; (ALSO TRAINING IN HIGH POWER ULTRASONICS AT UNIVERSITY OF DUISBURG, GERMANY AS DAAD FELLOW 1983-85 AND TRAINING IN UNDERWATER ACOUSTICS, UNIVERSITY OF BIRMINGHAM U.K., 1987-88); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN UNDERWATER ACOUSTICS SYSTEMS FOR APPLICATION TO OCEAN ENGINEERING.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, RES. PAPERS PRESENTED - 11, RES. REPORTS - 8, ARTICLE - 1, PATENTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF POLYSILICON SOLAR CELLS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 12, TECH. DEV. - 8, COMPUTER PROCESSING - 8

510

DR M N KAMALASANAN; (B. JANUARY 26, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '69; M.SC. PHYSICS - M.S. UNIVERSITY OF BARODA '72; PH.D. PHYSICS (MOLECULAR SPECTROSCOPY) - M.S. UNIVERSITY OF BARODA '76.

SPECIALIZATIONS : MOLECULAR PHYSICS; ELECTROPHOTOGRAPHY; THIN FILMS; XERORADIOGRAPHY; SOL-GEL TECHNIQUE.

EXPERIENCE : J.R.F. (UGC) AND P.D.F. (CSIR), M.S. UNIVERSITY OF BARODA, 1972-77; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1977-91; SCIENTIST EI N.P.L. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, PATENTS TAKEN - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 14, DESIGN - 10, CONSULTANCY - 2.

511

DR N D KATARIA; (B. JULY 1, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. PHYSICS - DELHI '76.

SPECIALIZATIONS : SOLID STATE PHYSICS; SUPERCONDUCTIVITY.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1977-88; (ALSO DAAD FELLOW FOR THE STUDY AND DEVELOPMENT OF JOSEPHSON JUNCTIONS AND SQUID, GERMANY, 1980-82 AND 1987). SCIENTIST EI, N.P.L. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, SWITZERLAND, HOLLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 10.

512

DR OMKAR NATH KHANNA; (B. OCTOBER 18, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '64; M.SC. PHYSICS - B.H.U. '67; PH.D. PHYSICS (ELECTRONICS) - B.H.U. '71.

SPECIALIZATIONS : ELECTRICAL AND ELECTRONIC MEASUREMENTS.

EXPERIENCE : RESEARCH ASSISTANT, DIRECTORATE OF L.R. IRRIGATION & POWER RESEARCH INSTITUTE, PANJAB, 1964-65; LECTURER IN PHYSICS, HINDU COLLEGE, AMRITSAR, 1967-69; LECTURER IN PHYSICS, B.H.U., 1971-73; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ELECTRICAL AND ELECTRONIC MEASUREMENTS; MAINTENANCE OF ELECTRONIC STANDARDS; CALIBRATION OF ELECTRICAL/ELECTRONIC INSTRUMENTS AND COMPONENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : IRAQ, ENGLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 25

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 5, TESTING - 7, TEACHING - 8.

513

DR VIJAY KUMAR KOHLI; (B. JULY 13, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '67; M.SC. SOLID STATE PHYSICS - DELHI '69; PH.D. PHYSICS - DELHI '84.

SPECIALIZATIONS : X-RAY DIFFRACTION TOPOGRAPHY; X-RAY DIFFRACTION EQUIPMENT AND TECHNIQUE; CRYSTAL GROWTH.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1969-89; (ALSO TRAINING IN TECHNIQUES FOR GROWTH AND CHARACTERISATION OF SINGLE CRYSTAL, U.S.S.R., 1979); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN X-RAY DIFFRACTION TECHNIQUES; STUDY OF DEFECTS IN SINGLE CRYSTALS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, PATENTS TAKEN - 3, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF TECHNIQUES FOR X-RAY TOPOGRAPHY, 1975; NRDC AWARD FOR IMPROVEMENT IN LANG CAMERA AND X-RAY SUPPLY SYSTEM, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, APP. RES. - 15, DESIGN - 16, MAINTENANCE - 13.

514

MRS KOWSALYA; (B. JULY 13, 1944),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MYSORE '63; B.E. ELECTRICAL AND COMMUNICATION ENGINEERING - I.I.SC., BANGALORE '66; M.E. ELECTRONICS - I.I.SC., BANGALORE '68; DIPLOMA IN ADVANCED ELECTRONICS - PHILIPS INTERNATIONAL INSTITUTE, HOLLAND '69.

SPECIALIZATIONS : ANALOG AND DIGITAL CIRCUITS; ELECTRONIC INSTRUMENTATION; FREQUENCY STABILIZATION OF LASERS; MICRODIMENSIONAL METROLOGY; CALIBRATION OF LASERS SECONDARY STANDARD.

EXPERIENCE : SENIOR RESEARCH ASSISTANT, I.I.SC., BANGALORE, 1968-75; SCIENTIST B, N.A.L., BANGALORE. 1975-76; SCIENTIST B AND SCIENTIST C, N.P.L., 1976-88; SCIENTIST EI, N.P.L. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, KANNADA, HINDI, ENGLISH.

VISITED : HOLLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, DESIGN - 20, TECH. DEV. - 20, TEACHING - 6.

515

DR V G KULKARNI; (B. JANUARY 1, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KARNATAK '67; M.SC. PHYSICS - KARNATAK '69; PH.D. PHYSICS - DELHI '85.

SPECIALIZATIONS : HOLOGRAPHY AND HOLOGRAPHIC INTERFEROMETRY; GAS LASERS; FREQUENCY STABILIZATION OF LASERS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1969-89; (ALSO HIGHER STUDIES IN OIL FILM INTERFEROMETRY, U.K., 1975-76); SCIENTIST EI, N.P.L. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KANNADA, HINDI, ENGLISH, RUSSIAN.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 2, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF GAS LASERS, 1973; NPL AWARD FOR THE DEVELOPMENT OF IODINE STABILIZED HE-NE LASER, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21.

516

DR P K ASHWINI KUMAR; (B. MAY 15, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. PHYSICS - DELHI '77.

SPECIALIZATIONS : CRYOGENICS; THIN FILMS; VACUUM TECHNOLOGY; PHOTOLITHOGRAPHY.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1978-88; SCIENTIST EI, N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, HINDI, ENGLISH, GERMAN, RUSSIAN.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 6, DESIGN - 8, OPERATION - 8.

517

SHRI P N VIJAYA KUMAR; (B. APRIL 29, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - BANGALORE '68; B.SC.(HONS.) PHYSICS - BANGALORE '69; M.SC. PHYSICS - BANGALORE '71.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : ENGINEER TRAINEE, M/S APPLIED ELECTRONICS, BOMBAY, 1971-72; ENGINEER, M/S ADVANCED ENGINEERS LTD., BANGALORE, 1972-74; S.S.A. AND SCIENTIST A, N.P.L., 1974-81; ELECTRONICS ENGINEER, ON DEPUTATION, DELHI UNIVERSITY, 1980-83; SCIENTIST B AND SCIENTIST C, N.P.L., 1981-89; (ALSO INTENSIVE TRAINING ON MICROPROCESSOR FUNDAMENTALS AND PROGRAMMING TECHNIQUES, IIT, DELHI, 1985); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN SPACE SCIENCE.

LANGUAGES : TAMIL, KANNADA, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR UNAMBIGUOUSLY MONITORING TROPOSPHERE EVENT BY SATELLITE SIGNAL MONITORING, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, DESIGN - 13, TECH. DEV. - 13.

518

DR S T LAKSHMI KUMAR; (B. MAY 20, 1955),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '74; M.SC. PHYSICS - SRI VENKATESWARA '76; PH.D. PHYSICS - I.I.SC., BANGALORE '81.

SPECIALIZATIONS : MATERIALS SCIENCE; AMORPHOUS MATERIALS AND CHARACTERISATION; SEMICONDUCTOR MATERIALS AND INTERFACES; MICROELECTRONICS.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.SC., BANGALORE, 1981-88; SCIENTIST C, N.P.L., 1983-88; SCIENTIST EI, N.P.L. SINCE MAY, 1988.

PRESENT ACTIVITIES : R & D IN MICROELECTRONICS-SEMICONDUCTOR METAL INSULATOR INTERFACES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 8.

519

SHRI B V KUMARASWAMY; (B. FEBRUARY 6, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MYSORE '70; B.E. METALLURGY - I.I.SC., BANGALORE '73; M.TECH. PHYSICAL METALLURGY - I.I.T., MADRAS '75.

SPECIALIZATIONS : HYDROSTATIC EXTRUSION; METALLOGRAPHY AND HEAT TREATMENT.

EXPERIENCE : S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1975-90; (ALSO TRAINING IN HYDROSTATIC EXTRUSION TECHNOLOGY, U.S.A., 1975-76); SCIENTIST EI, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN HYDROSTATIC EXTRUSION.

LANGUAGES : KANNADA, HINDI, TAMIL, ENGLISH, GERMAN.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 8, DESIGN - 7, PILOT PLANT - 10, OPERATION - 7, TESTING - 7, MAINTENANCE - 8.

520

DR MOHAN LAL; (B. JULY 12, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '68; M.SC. PHYSICS - MEERUT '70; PH.D. PHYSICS - MEERUT '83.

SPECIALIZATIONS : PHOTOVOLTAICS; MATERIALS CHARACTERISATION; SOLID STATE PHYSICS; ELCTRONIC CIRCUITRY.

EXPERIENCE : S.L.A., S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1971-89; SCIENTIST EI, N.P.L. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : R & D IN SILICON SOLAR CELLS.

LANGUAGES : HINDI, ENGLISH.

VISITED : POLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 5, ARTICLES - 14, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN, TESTING, PILOT PLANT, CONSULTANCY AND COMPUTER PROCESSING (TOTAL 21 YEARS).

521

SHRI RAM KRISHAN LUTHRA; (B. OCTOBER 11, 1939),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '60. M.SC. MATHEMATICS - DELHI '65.

SPECIALIZATIONS : TEMPERATURE STANDARDS.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1964-89; SCIENTIST EI, N.P.L. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : R & D IN TEMPERATURE STANDARDS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.K, GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 16. TECH. REPORTS - 4, ARTICLES - 2, PATENTS APPLIED - 1, PROCESSES UNDER UTILISATION - 4, PROCESSES DEVELOPED - 7.

AWARDS & DISTINCTIONS : NPL AWARD, 1981; FELLOW, METROLOGY SOCIETY OF INDIA, 1984.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 28.

522

DR S K MAHAJAN; (B. MAY 1, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '66; M.SC. PHYSICS - DELHI '68; PH.D. PHYSICS - DELHI '75.

SPECIALIZATIONS : SOLID STATE PHYSICS; ELECTRONICS; ELECTRICAL STANDARDS.

EXPERIENCE : LECTURER, HANS RAJ COLLEGE, DELHI, 1968-69; POOL OFFICER (CSIR), DELHI UNIVERSITY, DELHI, 1975-77; LECTURER, A.R.S.D. COLLEGE, DELHI, 1977-78; SCIENTIST B AND SCIENTIST C, N.P.L., 1978-88; SCIENTIST EI, N.P.L. SINCE MARCH, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRICAL STANDARDS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, RESEARCH & TECHNICAL REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ZENER STANDARDS, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 6, CALIBRATION - 6, TEACHING - 2.

523

DR PADAM LAL MALHOTRA; (B. OCTOBER 1, 1938),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '58; M.SC. PHYSICS - AGRA '61; PH.D. PHYSICS - DELHI; CERTIFICATE IN FORTRAN PROGRAMMING - DELHI '71.

SPECIALIZATIONS : F-REGION PHYSICS.

EXPERIENCE : P.G. TEACHER, JAIN HIGHER SECONDARY SCHOOL, DELHI, 1961-62; J.S.A. AND S.S.A., ALL INDIA RADIO, NEW DELHI, 1962-67; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1967-90; SCIENTIST EI, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : ENVIRONMENTAL MONITORING.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 29, R & D MGMT. - 25, OPERATION - 29.

524

DR L M MANOCHA; (B. DECEMBER 9, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) - KURUKSHETRA '70; M.SC. PHYSICS - KURUKSHETRA '72; PH.D. PHYSICS - DELHI '76.

SPECIALIZATIONS : CARBON FIBERS; FIBER REINFORCED PLASTICS/COMPOSITES; CARBON-CARBON COMPOSITES; LASER RESISTANT COMPOSITES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1977-88; (ALSO HUMBOLDT FELLOW FOR STUDIES IN CARBON-CARBON COMPOSITES, W. GERMANY, 1977-78 AND HIGHER STUDIES ON MICROSTRUCTURE OF CARBON-CARBON COMPOSITES, JAPAN, 1985-86); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1988; (PRESENTLY ON DEPUTATION TO S.P. UNIVERSITY, VALLABH VIDYANAGAR).

PRESENT ACTIVITIES : R & D IN CARBON FIBRES, CARBON-CARBON COMPOSITES AND ADVANCED CERAMIC FIBER COMPOSITES.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : W. GERMANY, U.K., FRANCE, JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 51, PATENTS FILED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF CARBON FIBRES IN INDIA, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 15.

525

DR R B MATHUR; (B. SEPTEMBER 26, 1952),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '69; M.SC. PHYSICS - AGRA '71; PH.D. SOLID STATE PHYSICS - RAJASTHAN '76.

SPECIALIZATIONS : CARBON FIBRES; X-RAY SPECTROSCOPY; INTERCALATION.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1977-85; (ALSO VISITED INSTITUTE FOR CHEMISCHE TECHNIK, DER UNIVERSITAT KARLSRUHE, W. GERMANY, 1981 AND FRANCE DURING 1987-88 AND IN 1990); SCIENTIST EI, N.P.L. SINCE JUNE, 1985.

PRESENT ACTIVITIES : R & D IN CARBON FIBRES.

LANGUAGES : HINDI, ENGLISH.

VISITED : W.GERMANY., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, PATENTS - 1, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR CONVERTING CHEAPER VARIETY OF PAN INTO CARBON FIBRES, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. AND PILOT PLANT - 13.

526

DR RAVI MEHROTRA; (B. AUGUST 2, 1954),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - I.I.T., DELHI '74; PH.D. PHYSICS - CASE WESTERN RESERVE UNIVERSITY, U.S.A. '81.

SPECIALIZATIONS : LOW TEMPERATURE PHYSICS.

EXPERIENCE : VISITING RESEARCH PHYSICIST, UNIVERSITY OF CALIFORNIA, U.S.A., 1981-83; SCIENTIST C, N.P.L., 1983-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : BASIC RESEARCH IN LOW TEMPERATURE PHYSICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, ARTICLES - 3.

AWARDS & DISTINCTIONS : FIRST PRIZE, THIRD COLLOQUIUM FOR YOUNG PHYSICISTS, INDIAN PHYSICAL SOCIETY, 1985; INSA MEDAL FOR YOUNG SCIENTISTS, 1986; YOUNG ASSOCIATESHIP, INDIAN ACADEMY OF SCIENCES, BANGALORE, 1986; CSIR YOUNG SCIENTIST AWARD, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18.

527

DR MAHENDRA MOHAN; (B. JUNE 30, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC. - GORAKHPUR '69; M.SC. MATHEMATICS - B.H.U. '71; PH.D. MATHEMATICS - B.H.U. '77.

SPECIALIZATIONS : FLUID DYNAMICS; TROPOSPHERIC PROPAGATION.

EXPERIENCE : LECTURER, HARISH CHANDRA COLLEGE, VARANASI, 1971-72; LECTURER, S.B. COLLEGE, VARANASI, 1972-73; J.R.F., B.H.U., VARANASI, 1973-77; SCIENTIST B AND SCIENTIST C, N.P.L., 1977-89; SCIENTIST EI, N.P.L. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D IN TROPOSPHERIC AND IONOSPHERIC PROPAGATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

528

DR V MOHANAN; (B. JULY 13, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '67; M.SC. PHYSICS - CALICUT '70; PH.D. PHYSICS - LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, U.K. '80.

SPECIALIZATIONS : ACOUSTICS; VIBRATIONS; WIRELESS; COMPUTER PROGRAMMING.

EXPERIENCE : RESEARCH ASSISTANT, COTTON TECHNOLOGICAL RESEARCH LABORATORY, BOMBAY, 1967-68; ENGINEERING ASSISTANT, A.I.R., 1971; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1971-86; (ALSO HIGHER STUDIES, U.K., 1977-80); SCIENTIST EI, N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D IN APPLIED ACOUSTICS; NOISE & VIBRATION MEASUREMENT AND ANALYSIS; ACOUSTIC CONSULTANCY; CALIBRATION & TESTING OF ACOUSTIC PRODUCTS AND MAINTENANCE AND UPDATING OF PRIMARY STANDARDS.

LANGUAGES : MALAYALAM, HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : U.K., GERMANY

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : FELLOW, METROLOGY SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, TECH. DEV. - 5, CONSULTANCY - 10, TESTING - 20, MAINTENANCE - 12, COMPUTER PROCESSING - 3.

529

DR R V ANANTHA MURTHY; (B. AUGUST 9, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - BANGALORE '68; M.SC. PHYSICS - BANGALORE '70; PH.D. PHYSICS - I.I.T., MADRAS '76.

SPECIALIZATIONS : CRYSTAL GROWTH; X-RAY CRYSTALLOGRAPHY.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.T., MADRAS, 1976-77; SCIENTIST B AND SCIENTIST C, N.P.L., 1977-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN CRYSTAL GROWTH AND CHARACTERISATION BY X-RAY TECHNIQUES.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 13, TESTING - 1, TEACHING - 1.

530

DR N S NATARAJAN; (B. MARCH 17, 1937),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - ANNAMALAI '58; M.SC. PHYSICS - ANNAMALAI '59; PH.D. PHYSICS - DELHI '70.

SPECIALIZATIONS : LOW TEMPERATURE PHYSICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1958-88; (ALSO HIGHER TRAINING IN METROLOGY, U.S.S.R., 1976 AND W. GERMANY, 1977-78) SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH ON JOSEPHSON VOLT STANDARD.

LANGUAGES : TAMIL, HINDI, ENGLISH, GERMAN.

VISITED : U.S.S.R., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 30.

531

DR OMKAR NATH; (B. OCTOBER 1, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '64; M.SC. PHYSICS - B.H.U. '67; PH.D. PHYSICS - B.H.U. '71.

SPECIALIZATIONS : ELECTRICAL/ELECTRONIC STANDARDS; PRECISION ELECTRONIC MEASUREMENTS; MICROWAVES.

EXPERIENCE : LECTURER IN PHYSICS, AMRITSAR, 1967-69; LECTURER IN PHYSICS, BANARAS, 1971-73; LECTURER IN PHYSICS, ARAQ. 1980-83; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRICAL/ELECTRONIC STANDARDS, LF & HF IMPEDANCE STANDARDS

LANGUAGES : HINDI, ENGLISH, PUNJABI

VISITED : IRAQ, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORT - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, TEACHING - 7, DESIGN - 4. TESTING - 15, APPLIED RESEARCH - 10.

532

SHRI BALBIR SINGH PADAM; (B. DECEMBER 7, 1943),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS (INDIA) '66; A.M.I.E. ELECTRICAL - INSTITUTION OF ENGINEERS (INDIA) '68.

SPECIALIZATIONS : SILICON SOLAR CELLS; SOLID STATE ELECTROLYTES.

EXPERIENCE : J.L.A., J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1965-88; SCIENTIST EI, N.P.L. SINCE SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN SILICON SOLAR CELLS AND SOLID STATE ELECTROLYTES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 3, PATENTS TAKEN - 2, PATENTS FILED - 4, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF POLYCRYSTALLINE SILICON SOLAR CELLS FOR TERRESTRIAL APPLICATIONS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 22.

533

SHRI D R PAHWA; (B. JANUARY 1, 1938),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. (HONS.) PHYSICS - PANJAB '64.

SPECIALIZATIONS : X-RAY DIFFRACTION TOPOGRAPHY; CRYSTAL GROWTH; INFRARED SPECTROSCOPY AND TECHNIQUES; NUCLEAR PHYSICS; ATMOSPHERIC PHYSICS; ACOUSTIC SOUNDING; SODAR; AIR POLLUTION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1964-88; (ALSO HIGHER RESEARCH ON NEWER TECHNIQUES OF CHARACTERISATION AND INSTRUMENTATION FOR GROWTH OF SINGLE CRYSTAL MATERIALS, UNDER EXCHANGE PROGRAMME, CZECHOSLOVAKIA, 1980); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

VISITED : CZECHOSLOVAKIA, AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 33, PATENTS TAKEN - 9, PATENTS FILED - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF TECHNIQUES FOR X-RAY TOPOGRAPHY; NRDC AWARD FOR DEVELOPMENT OF X-RAY DIFFRACTION TOPOGRAPHY CAMERA AND MICROFOCUS X-RAY GENERATOR, 1977; SECOND BEST POSTER PRESENTATION AWARD AT NATIONAL SPACE SCIENCE SYMPOSIUM, GAUHATI, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. - 26, DESIGN - 26, TECH. DEV. - 26

534

DR PRADEEP KUMAR PASRICHA; (B. JANUARY 2, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. IONOSPHERIC PHYSICS - DELHI '77.

SPECIALIZATIONS : IONOSPHERIC-TROPOSPHERIC PROPAGATION; ANTARCTIC ATMOSPHERIC PHYSICS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1980-88; SCIENTIST EI, N.P.L. SINCE JUNE, 1988.

PRESENT ACTIVITIES : BASIC RESEARCH IN ANTARCTIC ATMOSPHERIC PHYSICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.S.A., U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APPLIED RESEARCH - 2.

535

SHRI H N P PODDAR; (B. NOVEMBER 4, 1948),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; B.E. MECHANICAL - ROORKEE '72.

SPECIALIZATIONS : HYDRAULICS; MECHANICS AND WORKSHOP TECHNOLOGY; METAL FORMING.

EXPERIENCE : APPRENTICE OFFICER, TEXMACO LTD., CALCUTTA, 1972-74; S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1974-87; (ALSO TRAINING IN METAL FORMING, HYDRAULIC ENGINEERING AND WORKSHOP TECHNOLOGY, U.S.A., 1975); SCIENTIST EI, N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : DESIGN AND EXECUTION OF JOBS IN THE WORKSHOP, INCLUDING MATERIAL PROCUREMENT, CALIBRATION OF LIQUID FLOWMETERS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A., ITALY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, DESIGN - 6, PILOT PLANT - 9, OPERATION - 4, MAINTENANCE - 9, PRODUCTION - 6.

536

DR OM PRAKASH; (B. JANUARY 1, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - MEERUT '68; PH.D. '90

SPECIALIZATIONS : OPTICAL INSTRUMENTATION; PHOTOACOUSTIC SPECTROSCOPY; REFLECTANCE MEASUREMENTS.

EXPERIENCE : PROFESSIONAL ASSISTANT, C.W. & P.C., GAUHATI, 1969; S.T.A., SCIENTIST A, SCIENTIST B AND SCIEN-

TIST C N.P.L., 1969-89; SCIENTIST EI, N.P.L. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : PHOTOACOUSTIC SPECTROSCOPY; OPTICAL INSTRUMENTATION AND TESTING; REFLECTANCE MEASUREMENT; IR RADIATION MEASUREMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH & DEV. - 20, TESTING - 20, PHOTOACOUSTIC STUDIES - 12.

537

DR P N PUNTAMBEKAR; (B. JULY 24, 1939),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - VIKRAM '58; M.SC. PHYSICS - VIKRAM '60; PH.D. PHYSICS - DELHI '74.

SPECIALIZATIONS : INTERFEROMETRY; HOLOGRAPHY; LASERS; METROLOGY.

EXPERIENCE : J.S.A., S.S.A., J.S.O./SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1960-82; (ALSO POST-DOCTORAL STUDIES ON DYE LASERS AND HE-NE GAS LASER, IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY, LONDON, U.K., 1974-75); SCIENTIST EI, N.P.L. SINCE JUNE, 1982; (ALSO PROFESSOR, ON DEPUTATION, I.T.I. BOMBAY SINCE SEPTEMBER, 1986).

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.K., AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A HE-NE GAS LASER, 1973; NPL AWARD FOR THE DEVELOPMENT OF 12 - ABSORPTION FREQUENCY STABILISED HE-NE GAS LASER, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 18, TECH. DEV. - 18, TESTING - 8.

538

DR RAMJI RAI; (B. JANUARY 1, 1943),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '59; M.SC. PHYSICS - GORAKHPUR '62; D.PHIL. PHYSICS - CALCUTTA '66.

SPECIALIZATIONS : MAGNETIC BEHAVIOUR OF SOLIDS; ELECTRON PARAMAGNETIC RESONANCE; SUPERCONDUCTIVITY.

EXPERIENCE : RESEARCH ASSOCIATE, LAVAL UNIVERSITY, QUEBEC, CANADA, 1966-68; ASSOCIATE PROFESSOR, PAHLAVI UNIVERSITY, SHIRAZ, IRAN, 1968-74; MANAGER, PEAKAYS PHARMACEUTICALS, VARANASI, U.P., 1974-77; PROFESSOR, KERMAN UNIVERSITY, IRAN, 1977-80; RESEARCH ASSOCIATE AND SCIENTIST C, N.P.L., 1980-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, BENGALI, ENGLISH, PERSIAN.

VISITED : CANADA, IRAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 39.

AWARDS & DISTINCTIONS : MEMBER, BOARD OF EDITORS. IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY, 1972-74.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, TEACHING - 11, EDITING - 2.

539

DR M K RAINA; (B. JANUARY 27, 1940),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - J & K '61; B.SC. (ADDITIONAL) GEOLOGY - J & K '63; B.SC. (HONS.) PHYSICS - M.S. UNIVERSITY OF BARODA '65; M.SC. PHYSICS - M.S. UNIVERSITY OF BARODA '67; PH.D. EXPERIMENTAL PHYSICS - DELHI '80.

SPECIALIZATIONS : MICROWAVES/MM WAVE TECHNOLOGY; RADIOMETRY; RAIN ATTENUATION; ELECTRONIC CIRCUITRY; COMMUNICATIONS; WRITING, EDITING AND PUBLICATION; PROJECT MONITORING AND EVALUATION; MOSSBAUER AND X-RAY SPECTROSCOPY.

EXPERIENCE : S.R.F., SCIENTIST B AND SCIENTIST C, N.P.L., 1968-87; (ALSO TRAINING IN RUSTING RADIOMETRIC SYSTEMS AND REMOTE SENSING, U.K., 1984-85); SCIENTIST EI, N.P.L. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : R & D ON MICROWAVES/MM WAVES; RADIOMETRY, RAIN ATTENUATION, ELECTRONIC CIRCUITRY, TROPOSPHERIC MONITORING, COMMUNICATION AND ATMOSPHERIC PHYSICS.

LANGUAGES : KASHMIRI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 39, TECH. REPORTS - 14, SCIENTIFIC BOOKS (CO-EDITED) - 1, ARTICLES - 2, SCIENTIFIC BOOKS - 3, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR RAIN ATTENUATION AND RAIN RATE MEASUREMENTS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 7, DESIGN - 6, TECH. DEV. - 6, R & D MGMT. - 4, TESTING - 3, EDITING - 7, DOCUMENTATION - 7, ADMN. - 5.

540

SHRI GURMEJ RAM; (B. JUNE 20, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '63; B.SC. ENGG. ELECTRICAL - PANJAB '69.

SPECIALIZATIONS : MAINTENANCE AND UPKEEPING OF AC AND LOW FREQUENCY STANDARDS.

EXPERIENCE : H.L.S., N.P.L., 1970-77; SCIENTIST B AND SCIENTIST C, N.P.L., 1977-89; (ALSO ADVANCED TRAINING IN A.C. AND LOW FREQUENCY MEASUREMENTS, AUSTRALIA, 1982); SCIENTIST EI, N.P.L. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : AUSTRALIA.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ELECTRICAL AND ELECTRONIC STANDARDS, 1979.

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PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, TECH. DEV. - 5, DESIGN - 5, R & D MGMT. - 5, MAINTENANCE - 6.

541

DR R S RAM; (B. FEBRUARY 3, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) - B.H.U. '67; M.SC. PHYSICS - B.H.U. '69; PH.D. PHYSICS (EXPERIMENTAL SPECTROSCOPY) - B.H.U. '74.

SPECIALIZATIONS : MATERIALS CHARACTERISATION BY SPECTROCHEMICAL ANALYSIS TECHNIQUES; PHOTOACOUSTIC SPECTROSCOPY AND PHOTOACOUSTIC MICROSCOPY; HIGH RESOLUTION SPECTROSCOPY AND LASER SPECTROSCOPY; OPTOGALVANIC SPECTROSCOPY; REFLECTANCE SPECTROSCOPY.

EXPERIENCE : J.R.F., S.R.F./P.D.F., B.H.U., 1967-75; POOL OFFICER (CSIR), B.H.U., 1975; POOL OFFICER (CSIR), SCIENTIST B AND SCIENTIST C, N.P.L., 1975-88; (ALSO TRAINING IN OPERATION AND MAINTENANCE OF HIGH POWER ARGONION AND TUNABLE DYE LASER, U.S.A., 1982); SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN SPECTROSCOPY, IR STANDARDS AND RADIOMETRY, LASER AND CONVENTIONAL PHOTOACOUSTIC SPECTROSCOPY AND REFLECTANCE MEASUREMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 50.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 15.

542

DR(MRS) RAMA DEVI RAMACHANDRAN; (B. JANUARY 26, 1942),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - DELHI '62; M.SC. CHEMISTRY - DELHI '64; PH.D. - DELHI '88.

SPECIALIZATIONS : INORGANIC CHEMISTRY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1964-89; SCIENTIST EI, N.P.L. SINCE FEBURARY, 1989.

PRESENT ACTIVITIES : CHARACTERISATION OF MATERIALS BY CHEMICAL AND INSTRUMENTAL METHODS; PREPARATION OF STANDARD REFERENCE MATERIALS FOR TRACE ANALYSIS OF ELEMENTS IN HIGH PURITY WATER AND OTHER SOLVENTS.

LANGUAGES : TAMIL, MALAYALAM, SANSKRIT, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, PATENTS TAKEN - 4, PATENTS FILED - 1, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26.

543

SHRI S U M RAO; (B. AUGUST 20, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - NAGPUR '72.

SPECIALIZATIONS : ELECTRONICS; SOLID STATE PHYSICS; RELIABILITY PHYSICS OF ELECTRONIC COMPONENTS & EQUIPMENT; MATERIALS CHARACTERISATION.

EXPERIENCE : SCIENTIFIC ASSISTANT, TARAPUR ATOMIC POWER STATION, 1973-74; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1974-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RELIABILITY PHYSICS OF ELECTRONIC COMPONENTS & EQUIPMENT; CHARACTERISATION OF MATERIALS USING SCANNING ELECTRON MICROSCOPE(SEM) AND WAVELENGTH/ENERGY DISPERSIVE SPECTROMETERS(WDS/EDS).

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 9, TESTING - 18, QLTY. ASSURANCE - 18.

544

DR B V REDDI; (B. APRIL 1, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. METALLURGICAL - SRINAGAR '69; PH.D. MATERIALS SCIENCE - I.I.T., DELHI '60.

SPECIALIZATIONS : SUPERCONDUCTIVITY; RECRYSTALLISATION OF MATERIALS; STRENGTHENING OF METALS & ALLOYS; METAL FORMING; POWDER METALLURGY, THERMO MECHANICAL TREATMENT OF METALS & ALLOYS.

EXPERIENCE : ENGINEER TRAINEE, SREE BALAJI CENTRIFUGAL CARTINGS, HYDERABAD, 1969-70; J.R.F., N.A.L., BANGALORE, 1970-73; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-88; (ALSO ON DEPUTATION TO REPUBLIC FORGE CO. LTD., HYDERABAD, 1982-87); SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN SUPERCONDUCTIVITY (TECHNOLOGY OF OXIDE SUPERCONDUCTORS).

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

AWARDS & DISTINCTIONS : NPL MERIT AWARD FOR FABRICATION OF SUPERCONDUCTING MATERIALS, 1976; MERIT AWARD FOR DESIGN & FABRICATION OF SUPERCONDUCTING MAGNET, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 10, R & D MGMT. - 4, TESTING - 8, QUALITY CONTROL - 2.

545

SHRI Y SHOWRI REDDY; (B. JULY 12, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '60; M.SC. PHYSICS - VIKRAM '62.

SPECIALIZATIONS : CRYOGENICS; SOLAR ENERGY; SUPERCONDUCTIVITY.

EXPERIENCE : J.S.A., S.S.A., J.S.O., SCIENTIST B AND SCIENTIST C, N.P.L., 1964- 81; SCIENTIST EI, N.P.L. SINCE AUGUST, 1981.

PRESENT ACTIVITIES : R & D IN SUPERCONDUCTIVITY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18.

546

SHRI VIJAY KUMAR RUSTAGI; (B. OCTOBER 16, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.TECH. ELECTRICAL ENGINEERING - I.I.T., KANPUR '69.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; DIGITAL CIRCUITS; T V SYSTEMS; MEASUREMENTS AND CALIBRATION.

EXPERIENCE : SALES ENGINEER , TOSHNIWAL BROS. PVT. LTD., 1969-70; J.R.F., N.P.L., 1970-71; S.S.A. AND SCIENTIST A, C.E.E.R.I., PILANI, 1971-77; SCIENTIST B AND SCIENTIST C, N.P.L., 1977-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRICAL AND ELECTRONIC STANDARDS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.S.S.R., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 6, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., DESIGN AND TECH. DEV. - 20, R & D MGMT. - 12, OPERATION - 13, TESTING - 13, MAINTENANCE - 16.

547

DR RAKESH CHANDRA SAKSENA; (B. DECEMBER 30, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. PHYSICS - AGRA '61; PH.D. IONOSPHERIC PHYSICS - LONDON UNIVERSITY, U.K. '71.

SPECIALIZATIONS : IONOSPHERIC PHYSICS; RADIO NOISE.

EXPERIENCE : POST-GRADUATE TEACHER IN PHYSICS, DIRECTORATE OF EDUCATION, DELHI, 1961-62; J.S.A., CSIR, 1962-65; ASSISTANT ENGINEER, A.I.R., BHOPAL, 1965; DEMONSTRATOR (PART-TIME), UNIVERSITY OF LONDON BEDFORD COLLEGE, U.K., 1966- 68; LECTURER (PART-TIME), INNER LONDON EDUCATIONAL AUTHORITY, 1966-71; POOL OFFICER, SCIENTIST B AND SCIENTIST C, N.P.L., 1971-84; SCIENTIST EI, N.P.L. SINCE JULY, 1984.

PRESENT ACTIVITIES : RESEARCH IN IONOSPHERIC TROPOSPHERIC PROPAGATION.

LANGUAGES : HINDI, BENGALI, ENGLISH, GERMAN.

VISITED : U.K., GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 5.

AWARDS & DISTINCTIONS : NPL AWARD FOR SPORADIC-E MODELLING, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 29, TEACHING - 7. (PART-TIME).

548

DR AJIT KUMAR SARKAR; (B. NOVEMBER 1, 1943),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - BURDWAN '60; M.SC. INORGANIC CHEMISTRY - BURDWAN '62; PH.D. ANALYTICAL CHEMISTRY - BURDWAN '69.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1969-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 2, PATENTS TAKEN - 2, PATENTS FILED - 1, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF LIQUID CRYSTAL MATERIALS, 1975; FELLOW, INSTITUTION OF CHEMISTS (INDIA), 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, TECH. DEV. - 8, MAINTENANCE - 13, TEACHING - 1.

549

DR SWAPAN KUMAR SARKAR; (B. JANUARY 1, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - A.M.U. '70; M.SC. PHYSICS - A.M.U. '72; PH.D. PHYSICS - DELHI '79.

SPECIALIZATIONS : RADIO CLIMATOLOGY; TROPOSPHERIC PROPAGATION.

EXPERIENCE : J.R.F., S.R.F., P.D.F., SCIENTIST B AND SCIENTIST C, N.P.L., 1973- 88; SCIENTIST EI, N.P.L. SINCE JUNE, 1988.

PRESENT ACTIVITIES : RESEARCH AND CONSULTANCY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., FRANCE, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 25.

AWARDS & DISTINCTIONS : NPL AWARD FOR RAIN ATTENUATION AND RAIN RATE MEASUREMENT, 1978.

AWARDS & DISTINCTIONS : NPL AWARD FOR RAIN ATTENUATION AND RAIN RATE MEASUREMENT, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 17, CONSULTANCY - 15, MAINTENANCE - 15, EDITING - 14.

550

DR G M SAXENA; (B. MARCH 17, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KANPUR '67; M.SC. PHYSICS - KANPUR '69; PH.D. PHYSICS - I.I.T., DELHI '83.

SPECIALIZATIONS : QUANTUM ELECTRONICS; ELECTRONICS; THEORETICAL QUANTUM STATISTICS ; PARABOSE STATISTICS; SQUEEZED STATES OF LIGHT AND THEIR APPLICATIONS.

EXPERIENCE : J.R.F., I.I.T., KANPUR, 1970-74; S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1974-88; (ALSO MANAGEMENT TRAINEE, INDUSTRIAL FINANCE CORPORATION OF INDIA, 1977); SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ATOMIC FREQUENCY AND TIME SANDARDS (ATOMIC CLOCK).

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 6.

AWARDS & DISTINCTIONS : NPL AWARD FOR UPDATING OF TIME & FREQUENCY STANDARDS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 18.

551

SHRI RAJAN BABU SAXENA; (B. JUNE 20, 1949),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.I.T.S., PILANI '68; B.SC. (HONS.) PHYSICS - B.I.T.S., PILANI '69; M.SC. PHYSICS - B.I.T.S., PILANI '70.

SPECIALIZATIONS : SOLID STATE PHYSICS; CRYOGENICS.

EXPERIENCE : J.R.F. (CSIR), S.R.F.(AEC), S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1970-90; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN CRYOGENICS AND STIRLING ENGINES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECHNICAL REPORTS - 1, PATENTS FILED - 1, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : MERIT SCROLL FOR THE DEVELOPMENT OF CRYO-PENCIL UNIT FOR MEDICAL SURGERY, INDIAN CRYOGENICS COUNCIL, CALCUTTA; PROF M C JOSHI MEMORIAL AWARD FOR THE DEVELOPMENT OF STIRLING CYCLE BASED LIQUID AIR PLANT, INDIAN CRYOGENIC COUNCIL, CALCUTTA, 1985.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 17.

552

DR A SENGUPTA; (B. MARCH 8, 1953),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '72; M.SC. PHYSICS - DELHI '74; PH.D. PHYSICS - DELHI '79.

SPECIALIZATIONS : ELECTRONICS; RADIO PHYSICS (UPPER ATMOSPHERIC PHENOMENA AND DYNAMICS); TIME & FREQUENCY STANDARDS MAINTENANCE AND DISSEMINATION.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1979-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN MAINTENANCE OF TIME AND FREQUENCY STANDARDS.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

VISITED : U.S.A., U.K., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH.REPORTS - 6, ARTICLES - 2.

AWARDS & DISTINCTIONS : NPL AWARD, 1980; NPL AWARD, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 9, DESIGN - 14, TECH. DEV. - 9, R & D MGMT. - 4, OPERATION - 4, TESTING - 4, MAINTENANCE - 9, SURVEY OF NATURAL RESOURCES - 2, PLANNING - 3, EDITING - 2, DOCUMENTATION - 9, COMPUTER PROCESSING - 7.

553

DR VIRENDRA SHANKER; (B. MAY 8, 1952),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '71; M.SC. PHYSICS - DELHI '73; PH.D. PHYSICS - DELHI '78.

SPECIALIZATIONS : GROUP II-VI COMPOUNDS; SYNTHESIS OF LUMINESCENT MATERIALS (PHOSPHORS) AND CHARACTERISATION; SOLID STATE IMAGE AND DISPLAY DEVICES.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-88; MONBUSHO FELLOW, JAPAN, 1983-85; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D OF PHOSPHORS FOR MONOCHROME TELEVISION TUBES, X-RAY REAL TIME IMAGING DEVICES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NRDC INVENTIONS PROMOTION AWARD, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 12, PILOT PLANT - 2.

554

DR C P SHARMA; (B. OCTOBER 13, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '68; M.SC. CHEMISTRY - MEERUT '70; PH.D. ORGANOMETALLIC CHEMISTRY - DELHI '80.

SPECIALIZATIONS : ORGANOMETALLIC CHEMISTRY; LIQUID CRYSTALS; MOSSBAUER SPECTROSCOPY; POLYMER CHEMISTRY; SYNTHETIC ORGANIC CHEMISTRY; THIN FILM METAL OXIDE COATING BY SOL-GEL PROCESS; HIGH TEMPERATURE SUPER CONDUCTIVITY

EXPERIENCE : OFFICER TRAINEE, D.C.M., DELHI, 1970-71; J.S.A., DEFENCE SCIENCE LABORATORY, DELHI, 1971-76; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1976-90; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN ELECTROCHROMIC DISPLAY DEVICES, CONDUCTING POLYMERS, ORGANOMETALLIC CHEMISTRY AND THIN FILM METAL OXIDE COATING BY SOL-GEL PROCESS; HIGH TEMPERATURE SUPERCONDUCTIVITY.

LANGUAGES : HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. REPORTS - 2, PATENTS - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10.

555

DR D R SHARMA; (B. JULY 20, 1951),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '71; M.SC. PHYSICS - MEERUT '73; PH.D. PHYSICS (LOW PRESSURE) - I.I.T., DELHI '84.

SPECIALIZATIONS : VACUUM STANDARDS.

EXPERIENCE : J.R.F., S.R.F., S.T.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1977-89; (ALSO TRAINING IN VACUUM STANDARDS, U.S.A., 1982); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN VACUUM STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 5.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF VACUUM STANDARDS, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16.

556

SHRI DINESH CHANDRA SHARMA; (B. OCTOBER 5, 1938),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '60.

SPECIALIZATIONS : VACUUM TECHNOLOGY; THIN FILM DEVICES; XERORADIOGRAPHY; METROLOGY.

EXPERIENCE : LECTURER, MARWARI COLLEGE, KANPUR, 1960-62; LECTURER, M.M.H. COLLEGE, GHAZIABAD, 1962-64; S.S.A., J.S.O., SCIENTIST B AND SCIENTIST C, N.P.L., 1964-85; (ALSO DAAD FELLOW, W. GERMANY, 1969-71); SCIENTIST EI, N.P.L. SINCE SEPTEMBER, 1985.

PRESENT ACTIVITIES : R & D IN XERORADIOGRAPHY.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 3, PROCESSES DEVELOPED - 8, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR R & D VACUUM TECHNOLOGY, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 18, DESIGN - 8, TECH. DEV. - 18, CONSULTANCY - 5, TESTING - 10, TEACHING - 4.

557

DR M C SHARMA; (B. JULY 7, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60; M.SC. PHYSICS - ALLAHABAD '62; PH.D. IONOSPHERIC PHYSICS - DELHI '76.

SPECIALIZATIONS : IONOSPHERIC PHYSICS.

EXPERIENCE : LECTURER, EWING CHRISTIAN COLLEGE, ALLAHABAD, 1962-63; RESEARCH SCHOLAR, PHYSICAL RESEARCH LABORATORY, AHMEDABAD, 1963-67; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1967-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, DESIGN - 2, MAINTENANCE - 12, TEACHING - 1.

558

SHRI OMKAR SHARMA; (B. JANUARY 20, 1952),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - KURUKSHETRA '71; M.SC. PHYSICS - DELHI '73.

SPECIALIZATIONS : BUILDING ACOUSTICS; NOISE & VIBRATION; ELECTROACOUSTICS; SOLID STATE PHYSICS.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1973-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : CALIBRATION, TESTING, CONSULTANCY AND R & D IN APPLIED ACOUSTICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 5, POPULAR SCIENCE BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12, CONSULTANCY - 4, TESTING AND CALIBRATION - 10.

559

SHRI R S SHARMA; (B. MARCH 6, 1938),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '60; M.SC. MATHEMATICS - AGRA '64.

SPECIALIZATIONS : TESTING, CALIBRATION AND MAINTENANCE OF FORCE STANDARDS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1961-89; SCIENTIST EI, N.P.L. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : CALIBRATION AND DEVELOPMENTAL TESTING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 23, MAINTENANCE - 15.

560

DR BHANU PRATAP SINGH; (B. JANUARY 16, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) - B.H.U. '66; M.SC. PHYSICS - B.H.U. '68; PH.D. PHYSICS - DELHI '80.

SPECIALIZATIONS : X-RAY CRYSTALLOGRAPHY; SUPERHARD MATERIALS; MATERIALS CHARACTERISATION; HIGH PRESSURE PHYSICS.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C N.P.L., 1970-89; (ALSO TRAINING IN CHARACTERISATION OF SUPERHARD MATERIALS USING X-RAY DIFFRACTION AND ELECTRON MICROSCOPIC TECHNIQUES, UNDER UNDP, U.S.A., 1982); SCIENTIST EI, N.P.L. SINCE MAY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 33. RES./TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 15, PILOT PLANT - 6.

561

SHRI DEVENDRA SINGH; (B. NOVEMBER 28, 1937),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; M.SC. CHEMISTRY - AGRA '59.

SPECIALIZATIONS : ELECTROPHOTOGRAPHY; ARTIFICIAL RAIN MAKING; SOLAR ENERGY (DESALINATION OF WATER); THIN FILM TECHNOLOGY.

EXPERIENCE : S.S.A., J.S.O./SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1962-86; SCIENTIST EI, N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 3, PATENTS TAKEN - 9, PATENTS FILED - 9, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD AWARD FOR FABRICATION AND CHARGING OF PHOTOCONDUCTIVE PLATES, 1971; IMPORT SUBSTITUTION AWARD FOR PHOTOSTAT COPYING MACHINE, 1971; GOLD SHIELD FOR THE DEVELOPMENT OF A PHOTOSTAT MACHINE, INDIAN MERCHANTS CHAMBER OF COMMERCE, BOMBAY, 1971; FIRST NPL MERIT AWARD.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 3, TECH. DEV. - 11, CONSULTANCY - 5.

562

DR JANARDAN SINGH; (B. JUNE 25, 1944),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '64; M.SC. PHYSICS - ALLAHABAD '66; D.PHIL. PHYSICS - ALLAHABAD '69; DIPLOMA IN FRENCH - ALLAHABAD '69.

SPECIALIZATIONS : MOLECULAR SPECTROSCOPY; LASER ACTIONS IN GASES; CERAMIC MATERIALS; FERROELECTRIC CERAMIC TRANSDUCER MATERIALS; UNDERWATER TRANSDUCER MATERIALS AND DEVICES.

EXPERIENCE : RESEARCH ASSOCIATE. I.I.T., KANPUR. 1971-73; POOL OFFICER (CSIR), SCIENTIST B AND SCIENTIST C, N.P.L., 1973-87; SCIENTIST EI, N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : R & D IN FERROELECTRIC CERAMIC TRANSDUCER MATERIALS; DEVELOPMENT & CHARACTERISATION OF UNDERWATER TRANSDUCER MATERIALS & DEVICES

LANGUAGES : HINDI, SANSKRIT, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. RESERCH REPORTS - 6, TECH. BULLETINS - 4, PATENTS FILED - 3. PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2. KNOW HOW DOCUMENTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7. PILOT PLANT PRODUCTION - 14. APPLIED RESEARCH & DEVELOPMENT - 18.

563

SHRI JOGINDER SINGH; (B. NOVEMBER 2, 1939),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '60; M.SC. PHYSICS - DELHI '62.

SPECIALIZATIONS : NUCLEAR PHYSICS; HIGH PRESSURE AND HIGH TEMPERATURE PHYSICS; INFRARED SYSTEMS; THERMISTOR DETECTORS; RADIOMETRIC AND REFLECTANCE MEASUREMENTS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C. N.P.L., 1963-86; SCIENTIST EI, N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : MATERIALS CHARACTERISATION BY IR TECHNIQUES; REMOTE SENSING IR SYSTEMS DEVELOPMENT; FABRICATION AND CHARACTERISATION OF THERMISTOR DETECTORS; RADIOMETRIC MEASUREMENTS IN IR REGION; ABSOLUTE REFLECTANCE MEASUREMENTS AT NORMAL INCIDENCE.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

VISITED : SAUDI ARABIA.

PUBLICATIONS & PATENTS : TECH. REPORTS - 10, PATENTS TAKEN - 2, PATENTS FILED - 3, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR INDIGENOUS DEVELOPMENT OF HOT AXLE DETECTION SYSTEM FOR INDIAN RAILWAYS, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN - (TOTAL : 28 YEARS).

564

DR LAKHA SINGH; (B. APRIL 15, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '67; B.SC. (HONS.) PHYSICS - PANJAB '69; M.SC. (HONS.) PHYSICS - PANJAB '70; PH.D. IONOSPHERIC - PANJAB '89.

SPECIALIZATIONS : ELECTRONICS; INSTRUMENTATION; IONOSPHERIC AND SPACE PHYSICS.

EXPERIENCE : LECTURER IN PHYSICS, PUNJAB GOVERNMENT, 1971-72; J.S.A., S.S.A. AND SCIENTIST B, N.P.L., 1972-83; SCIENTIST C, N.P.L. 1984-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D; STUDY OF TRAVELLING IONOSPHERIC DISTURBANCES USING SATELLITE BEACON AND GRAVITY WAVES.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 20. TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN AND TECH. DEV. - 15.

565

DR SHIV NATH SINGH; (B. DECEMBER 28, 1947),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - AGRA '69; PH.D. PHYSICS - AGRA '75.

SPECIALIZATIONS : SEMICONDUCTOR MATERIALS AND DEVICES; PHOTOVOLTAICS; CRYSTAL GROWTH.

EXPERIENCE : J.R.F., S.R.F., P.D.F., SCIENTIST B AND SCIENTIST C, N.P.L., 1970- 87; SCIENTIST EI, N.P.L. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D IN GROWTH OF BULK POLYERYSTALLINE SILICON AND GERMANIUM CRYSTALS; ELECTRICAL, ELECTRONIC AND OPTOELECTRONIC PROPERTIES OF SEMICONDUCTORS, SILICON DEVICES AND PHOTOVOLTAICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE, WEST GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 51, TECH. REPORTS - 10, BOOKS EDITED - 1, PATENTS FILED - 2, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A 7 1/2 % EFFICIENCY POLYCRYSTALLINE SILICON SOLAR CELL FABRICATION PROCESS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20.

566

DR JNANENDRA NATH SOM; (B. MARCH 13, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) PHYSICS - CALCUTTA '67; M.SC. PHYSICS - KALYANI '70; PH.D. PHYSICS - CALCUTTA '77.

SPECIALIZATIONS : SPECTROSCOPY; ULTRASONIC TRANSDUCERS AND STANDARDS; PIEZOELECTRIC DEVICES; NONDESTRUCTIVE TESTING.

EXPERIENCE : LECTURER, KANYAPUR POLYTECHNIC, ASANSOL, 1976-77; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1977-89; (ALSO HIGHER TRAINING IN ULTRASONIC STANDARDS, POLAND, 1983 AND U.K., 1987); SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN ULTRASONIC STANDARDS.

LANGUAGES : BENGALI, ORIYA, ENGLISH.

VISITED : POLAND, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 5, ARTICLES - 10.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ULTRASONIC TRANSDUCER, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP RES. - 13, TEACHING - 5, EDITTING - 10, TECH. DEV - 13, DESIGN - 13, MAINTENANCE - 13.

567

DR G D SOOTHA; (B. AUGUST 12, 1939),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '58; M.SC. PHYSICS - AGRA '60; PH.D. SOLID STATE PHYSICS - DELHI '67.

SPECIALIZATIONS : OPTICAL, ELECTRICAL AND MAGNETIC PROPERTIES OF SOLIDS; ELECTROPHOTOGRAPHY; SOLAR ENERGY.

EXPERIENCE : J.R.F., S.R.F., S.S.O.II/SCIENTIST B AND SCIENTIST C, N.P.L., 1961- 77; SCIENTIST EI, N.P.L. SINCE SEPTEMBER, 1977; (ALSO DIRECTOR, ON DEPUTATION, DEPARTMENT OF NON CONVENTIONAL ENERGY SOURCES, GOVERNMENT OF INDIA SINCE SEPTEMBER, 1982).

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 10, ARTICLES - 15, PATENTS TAKEN - 8, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23, APP. RES. - 12, DESIGN - 10 10, TECH. DEV. - 10, CONSULTANCY - 8, R & D MGMT. - 8, TESTING - 16, MAINTENANCE - 16.

568

SHRI D K SURI; (B. JULY 12, 1953),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '70; M.SC. PHYSICS - MEERUT '72; M.SC. MATHEMATICS - DELHI '76.

SPECIALIZATIONS : SOLID STATE PHYSICS; NUMERICAL ANALYSIS; COMPUTER PROGRAMMING; STATISTICS; X-RAY CRYSTALLOGRAPHY.

EXPERIENCE : J.S.A., DEFENCE SCIENCE LABORATORY, DELHI, 1973-76; S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1976-89; SCIENTIST EI, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN CHARACTERISATION OF MATERIALS, USING X-RAY DIFFRACTION AND X-RAY FLUORESCENCE SPECTROMETRY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 34, RES./TECH. REPORTS - 5, REVIEW ARTICLES - 1, PAPER PRESENTED AT CONFERENCE - 20.

AWARDS & DISTINCTIONS : SCROLL FOR DEVELOPMENT OF HIGH TC SQUIDS, INDIAN CRYOGENICS COUNCIL, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 5, DESIGN - 1, TESTING - 10, MAINTENANCE - 3.

569

SHRI RAM SWARUP; (B. MARCH 14, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '65; M.SC. PHYSICS - AGRA '68; M.SC. (TECH.) ELECTRONICS ENGINEERING - B.I.T.S., PILANI '70.

SPECIALIZATIONS : MICROWAVE MEASUREMENTS; STANDARDS & CALIBRATION; DESIGN & DEVELOPMENT OF MICROWAVE COMPONENTS.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.P.L., 1970-87; (ALSO HIGHER TRAINING IN ELECTRICAL AND ELECTRONIC MEASUREMENT STANDARDS, JAPAN, 1979). SCIENTIST EI, N.P.L. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : R & D IN MICROWAVE STANDARDS & CALIBRATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 11, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR ESTABLISHMENT OF NATIONAL STANDARDS OF ATTENUATION & IMPEDANCE AT MICROWAVE FREQUENCIES, 1979

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, STANDARDS & CALIBRATION - 13.

570

DR R P TANDON; (B. NOVEMBER 24, 1950),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; PH.D. PHYSICS - DELHI '77.

SPECIALIZATIONS : MATERIALS SCIENCE.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, N.P.L., 1977-88; (ALSO VISITING SCIENTIST, M.I.T., U.S.A., 1980-82); SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 10.

571

DR V S TOMAR; (B. DECEMBER 1, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - VIKRAM '61; M.SC. SOLID STATE PHYSICS - VIKRAM '63; PH.D. SOLID STATE PHYSICS - SAUGAR '70.

SPECIALIZATIONS : ELECTRICAL CONDUCTION IN POLYMERS; SUPERCONDUCTIVITY; SUPERFLUIDITY; VOLTAGE STANDARDS; NONEQUILIBRIUM SUPERCONDUCTIVITY; JOSEPHSON TUNNELING AND HIGH TEMPERATURE SUPERCONDUCTORS; SQUID DEVICES.

EXPERIENCE : POST-DOCTORAL RESEARCH FELLOW, ZURICH, SWITZERLAND, 1971-74; POOL OFFICER (CSIR). SCIENTIST B AND SCIENTIST C, N.P.L., 1974-87; (ALSO HIGHER RESEARCH ON VOLTAGE STANDARD AND NON-EQUILIBRIUM SUPERCONDUCTIVITY, U.S.S.R., 1978-79 AND JAPAN, 1981-82); SCIENTIST EI, N.P.L. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : SWITZERLAND, U.S.S.R., JAPAN, ITALY, CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 105, TECH REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 28, APP.RES. - 17, DESIGN - 17, TEACHING - 2.

572

DR JAGDISH CHANDER TREHAN; (B. NOVEMBER 26, 1937),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - DELHI '58; M.SC. CHEMISTRY - DELHI '60; PH.D. CHEMISTRY - DELHI '90.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY.

EXPERIENCE : LECTURER, RAMJAS COLLEGE, UNIVERSITY OF DELHI, 1960-61; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1961-86; (ALSO ATTENDED AN INTERNATIONAL TRAINING COURSE IN CHEMISTRY, UNDER COLOMBO PLAN, AUSTRALIA, 1971); SCIENTIST EI, N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : R & D IN MATERIALS CHARACTERISATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 29, TEACHING - 1.

573

DR R B TRIPATHI; (B. JUNE 1, 1945),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - KANPUR '68; PH.D. SOLID STATE PHYSICS - I.I.T., MADRAS '73.

SPECIALIZATIONS : ELECTROCERAMICS; SOLAR CELLS; ELECTRONICS; OPTICAL PROPERTIES OF SOLIDS; SUPERCONDUCTING CERAMICS.

EXPERIENCE : POOL OFFICER (CSIR), SCIENTIST B AND SCIENTIST C, N.P.L., 1973-87; SCIENTIST EI, N.P.L. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D ON FERRITES AND SUPERCONDUCTORS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES.PAPERS - 34, RES. REPORTS - 14, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 10, PILOT PLANT - 2, TEACHING - 4.

574

DR J S VAISHYA; (B. NOVEMBER 15, 1942),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - VIKRAM '61; M.SC. PHYSICS - VIKRAM '63; ASSOCIATESHIP - SAHA INSTITUTE OF NUCLEAR PHYSICS, CALCUTTA '64; PH.D. PHYSICS - DELHI '68.

SPECIALIZATIONS : OPTICS; SOLAR ENERGY (THERMAL); THEORETICAL SOLID STATE AND PARTICLE PHYSICS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1964-86; (ALSO RESEARCH ASSOCIATE, I.I.T., KANPUR, 1969-72; I.A.E.A. FELLOW. INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE, ITALY, 1972); SCIENTIST EI, N.P.L. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : R & D IN OPTICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : ITALY, SWEDEN, BULGARIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 10.

AWARDS & DISTINCTIONS : INDRADIPTA MEMORIAL SCROLL FOR DEVELOPMENT OF CRYOPROBE FOR EYE SURGERY, INDIAN CRYOGENICS COUNCIL, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. - 12, DESIGN - 5, TECH. DEV. - 5, TEACHING - 2.

575

SHRI VED PRAKASH VARMA; (B. JANUARY 2, 1938),

TECHNICAL OFFICER (EI), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRIC - PANJAB '53.

SPECIALIZATIONS : SCIENTIFIC GLASS BLOWING.

EXPERIENCE : APPRENTICE, GLASS BLOWER, FINE MECHANIC, SUPERVISORY MECHANIC, S.T.A., S.T.O.II/SCIENTIST B AND TECHNICAL OFFICER (C), N.P.L., 1954-87; TECHNICAL OFFICER (EI), N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT AND FABRICATION OF SCIENTIFIC GLASS APPARATUS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 38.

576

DR R VENKATACHARI; (B. JUNE 6, 1936),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - MADRAS '57; M.A. PHYSICS - MADRAS '60; PH.D. IONOSPHERIC PHYSICS - ANDHRA '77; DIPLOMA IN RUSSIAN - EVENING INSTITUTE OF RUSSIAN LANGUAGE, DELHI '76; CERTIFICATE IN FORTRAN PROGRAMME - DELHI '71.

SPECIALIZATIONS : IONOSPHERIC PHYSICS.

EXPERIENCE : J.S.A. AND S.S.A., C.S.I.R., 1958-67; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1967-88; SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF MICROBAROGRAPH; RESEARCH IN IONOSPHERIC PHYSICS.

LANGUAGES : TAMIL, HINDI, ENGLISH. RUSSIAN.

VISITED : BULGARIA, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR IONOSPHERIC MODELLING. 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, OPERATION - 20, MAINTENANCE - 15, EDITING - 3, COMPUTER PROGRAMMING - 4.

577

DR B S VERMA; (B. JULY 15, 1941),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '61; M.SC. PHYSICS - AGRA '64; M.S. SOLID STATE PHYSICS - POLYTECHNIC INSTITUTE OF BROOKLYN, N.Y., U.S.A. '69; PH.D. PHYSICS(THIN FILMS) - AGRA '74.

SPECIALIZATIONS : THIN FILMS; THIN FILM OPTICAL DEVICES.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.P.L., 1973-88; SCIENTIST EI, N.P.L. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : R & D AND PRODUCTION OF OPTICAL DEVICES.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 31.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 13, DESIGN - 3, TECH. DEV. - 13, PRODUCTION - 13.

578

DR K S ZALPURI; (B. SEPTEMBER 12, 1946),

SCIENTIST EI, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '67; M.SC. PHYSICS - DELHI '69; PH.D. SPACE PHYSICS - DELHI '75; CERTIFICATE IN COMPUTER PROGRAMMING (FORTRAN) - DELHI '71; CERTIFICATE IN COMPUTER PROGRAMMING (PL-1) - DELHI '73.

SPECIALIZATIONS : COMPUTER PROGRAMMING; RELIABILITY STUDIES OF ELECTRONIC COMPONENTS; EXPERIMENTAL AND THEORETICAL STUDIES OF LOWER IONOSPHERE.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST B, SCIENTIST C AND POOL OFFICER (CSIR), N.P.L., 1969-88; (ALSO RESEARCH IN SPACE PHYSICS, GEOPHYSICS RESEARCH LABORATORY, UNIVERSITY OF TOKYO, JAPAN, 1978-79); SCIENTIST EI, N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN, ITALY, YUGOSLAVIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, TESTING - 3, COMPUTER PROCESSING - 9.

579

DR S K AGARWAL; (B. NOVEMBER 23, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI '68; M.SC. PHYSICS - DELHI '71; PH.D. SOLID STATE PHYSICS - DELHI '78.

SPECIALIZATIONS : HIGH TC SUPERCONDUCTIVITY; SUPERCONDUCTING MATEIALS; LOW TEMPERATURE TECHNIQUES; SEMICONDUCTOR PHYSICS

EXPERIENCE : LECTURER, S.S.N. COLLEGE, UNIVERSITY OF DELHI, 1978; TECHNICAL OFFICER, CENTRAL ELECTRONICS LTD, SAHIBABAD, 1978; RESEARCH ASSOCIATE, DEPARTMENT OF PHYSICS, DELHI UNIVERSITY, 1978-82; RESEARCH ASSOCIATE AND SCIENTIST B, N.P.L., 1982-89; SCIENTIST C, N.P.L. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : R & D IN HIGH TEMPERATURE SUPERCONDUCTIVITY.

LANGUAGES : HINDI, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 6, PRODUCTION - 1.

580

SHRI RITANDER AGGARWAL; (B. NOVEMBER 24, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - BOARD OF TECHNICAL EDUCATION, DELHI '70; A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS (INDIA) '76.

SPECIALIZATIONS : MICROWAVE COMPONENTS.

EXPERIENCE : S.L.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1973-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DEVELOPMENT, MAINTENANCE AND UPDATING OF MICROWAVE STANDARDS FOR POWER, FREQUENCY AND NOISE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 8.

AWARDS & DISTINCTIONS : NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, MAINTENANCE AND PRODUCTION - (TOTAL 17 YEARS).

581

DR(MRS) S A AGNIHOTRY; (B. OCTOBER 13, 1945),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - BOMBAY '65; M.SC. NUCLEAR PHYSICS - BOMBAY '67; PH.D. SPECTROSCOPY - BOMBAY '74.

SPECIALIZATIONS : MATERIALS CHARACTERISATION; INFRARED SYSTEMS; DISPLAY DEVICES (ELECTROCHROMIC & LIQUID CRYSTAL); HIGH TC SUPERCONDUCTIVITY.

EXPERIENCE : DEMONSTRATOR, R.R. COLLEGE, BOMBAY, 1965-67; LECTURER, S.I.E.S. COLLEGE, BOMBAY, 1967-69; POOL OFFICER (CSIR) AND SCIENTIST B, N.P.L., 1977-85; SCIENTIST C, N.P.L. SINCE JULY, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.S.A., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 24.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 10, DESIGN - 5, TESTING - 3, MAINTENANCE - 1, TEACHING - 4.

582

DR A K AGRAWAL; (B. NOVEMBER 15, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '68; M.SC. CHEMISTRY - AGRA '70; PH.D. CHEMISTRY - DELHI '83.

SPECIALIZATIONS : ORGANIC CHEMISTRY; ANALYTICAL CHEMISTRY.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1971- 87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D; PREPARATION AND EVALUATION OF STANDARD REFERENCE MATERIALS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 43, RESEARCH REPORTS - 4, PATENTS TAKEN - 3, PROCESSES DEVELOPED - 1, CONSULTANCY - 1.

AWARDS & DISTINCTIONS : NRDC AWARD, 1975; NPL AWARD, 1977; FELLOW, INSTITUTION OF CHEMISTS (INDIA), 1984; FELLOW, INDIAN CHEMICAL SOCIETY, 1984.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP. RES. - 4, DESIGN - 6.

583

SHRI C ANANDAN; (B. DECEMBER 26, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '77; M.SC. APPLIED PHYSICS - MADRAS '79; M.TECH. MATERIALS SCIENCE - I.I.T., KANPUR '81; PH.D. PHYSICS - UNIVERSITY OF WALES, U.K. '90.

SPECIALIZATIONS : MATERIALS SCIENCE; SEMICONDUCTOR DEVICES; MATERIALS SCIENCE; SEMICONDUCTOR DEVICE TECHNOLOGY; SURFACE SCIENCE(THIN FILMS AND DEPOSITION TECHNIQUES).

EXPERIENCE : PROJECT ASSOCIATE, I.I.T., MADRAS, 1982; SCIENTIST B, N.P.L., 1982-88; (ALSO TRAINING IN MATERIAL SCHOLARSHIP, UNIVERSITY OF CARDIFF, U.K., SEPTEMBER, 1986 ONWARDS);.SCIENTIST C, N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D IN AMORPHOUS SEMICONDUCTORS AND THIN FILMS.

LANGUAGES : TELUGU, TAMIL, ENGLISH.

VISITED : U.K.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7.

584

SHRI R C ANANDANI; (B. DECEMBER 30, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL - JIWAJI '73.

SPECIALIZATIONS : HOT EXTRUSION AND COLD FORGING OF METALS.

EXPERIENCE : SUPERVISER, SWASTIKA INDUSTRIES, BOMBAY, 1974-75; ASSISTANT ENGINEER, DANDEKAR MACHINE WORKS LTD., THANA, BOMBAY, 1975-77; S.S.A. AND SCIENTIST B, N.P.L., 1977-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D ON HOT EXTRUSION OF METALS AND ALLOYS AND COLDFORGING OF METALS; PROCESSING OF ALUMINIUM ALLOY MATRIX COMPOSITES.

LANGUAGES : SINDHI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, QUALITY CONTROL - 3, PRODUCTION - 3.

585

DR NARINDER KUMAR ARORA; (B. JULY 1, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '71; M.SC. PHYSICS - PANJAB '73; PH.D. PHYSICS - DELHI '83.

SPECIALIZATIONS : PHOTOVOLTAICS; SEMICONDUCTOR DEVICES; SILICON CRYSTAL GROWTH; PROCESS MODELLING.

EXPERIENCE : J.S.A., D.S.L., 1974; S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, PATENTS FILED - 2, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF POLYCRYSTALLINE SILICON SILICON SOLAR CELLS FOR TERRESTRIAL APPLICATIONS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16.

586

SHRI B C ARYA; (B. JANUARY 1, 1953),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY. NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '71; M.SC. PHYSICS - AGRA '73.

SPECIALIZATIONS : ELECTRONICS; SPECTROSCOPY; ATMOSPHERIC PHYSICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN ATMOSPHERIC PHYSICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 8, DESIGN - 8.

587

SHRI B R AWASTHY; (B. OCTOBER 5, 1938),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60; M.SC. MATHEMATICS - DELHI '63; A.M.I.E. CHEMICAL - INSTITUTION OF ENGINEERS (INDIA) '68.

SPECIALIZATIONS : CARBON PRODUCTS; POLYCRYSTALLINE MATERIALS FOR SOLAR CELLS; GAS CHROMATOGRAPHY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1960-84; SCIENTIST C, N.P.L. SINCE OCTOBER. 1984.

PRESENT ACTIVITIES : R & D; PREPERATION OF THIN FILMS OF HIGH TC USING ORGANOMETALLIC COMPOUNDS & COATING OF SILICON CARBIDE ON CARBON COMPOSITES.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, PATENTS FILED - 1, PATENTS TAKEN - 1, TECH. REPORTS - 3, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF SILICON SOLAR CELLS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. AND TECH. DEV. - (TOTAL : 23 YEARS).

588

SHRI NARINDER KUMAR BABBAR; (B. NOVEMBER 18, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '69; A.I.C. CHEMISTRY - INSTITUTION OF CHEMISTS (INDIA) '77; CERTIFICATE IN RUSSIAN LANGUAGE.

SPECIALIZATIONS : CRYOGENICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1972-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN CRYOGENICS AND STIRLING ENGINES.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES.PAPERS - 15, TECH. REPORTS - 1, PATENTS FILED - 1, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : MERIT SCROLL FOR CONTRIBUTION IN THE FIELD OF CRYO-SURGERY, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1978; PROF M C JOSHI AWARD FOR THE DEVELOPMENT OF LIQUID AIR PLANT BASED ON STIRLING CYCLE, INDIAN CRYOGENICS COUNCIL, 1985; FELLOW, INSTITUTION OF CHEMISTS (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13, DESIGN - 2, TESTING - 1, PRODUCTION - 3.

589

SHRI VIRENDRA BABU; (B. JANUARY 11, 1954),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '73; DIPLOMA IN INSTRUMENTATION TECHNOLOGY - C.S.I.O., CHANDIGARH '76; GRAD. INDUSTRIAL ENGINEERING - I.I.I.E., BOMBAY '85.

SPECIALIZATIONS : SPECIAL PURPOSE CAMERAS; SPINNING OF TUBES; FLUID FLOW MEASUREMENTS; LABORATRY ACCREDITATION.

EXPERIENCE : TECHNICAL ASSISTANT, M/S ESCORTS (MSD), FARIDABAD, HARYANA, 1976-77; S.T.A. AND SCIENTIST B, C.S.I.O., CHANDIGARH, 1977-84; SCIENTIST B, N.P.L., 1984-87; TECHNICAL OFFICER (C), N.P.L. SINCE MARCH, 1987.

PRESENT ACTIVITIES : FLUID FLOW MEASUREMENTS & LABORATORY ACCREDITATION..

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN - 10, PILOT PLANT - 3, OPERATION - 3.

590

DR HARISH BAHADUR; (B. SEPTEMBER 26, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '69; M.SC. PHYSICS - AGRA '72; PH.D. PHYSICS - DELHI '81.

SPECIALIZATIONS : SOLID STATE PHYSICS; ATOMIC FREQUENCY STANDARDS; QUARTZ CRYSTALS; SCANNING ELECTRON MICROSCOPY.

EXPERIENCE : RESEARCH ASSOCIATE, N.P.L., 1981-82; HOMI BHABHA RESEARCH FELLOW, N.P.L., NEW DELHI, 1982-84; RESEARCH ASSOCIATE, OKLAHOMA STATE UNIVERSITY, U.S.A., 1984-85; RESEARCH ASSOCIATE, UNIVERSITY OF S. FLORIDA, USA, 1985; POOL OFFICER, N.P.L., 1986; SCIENTIST C, N.P.L. SINCE JULY, 1986.

PRESENT ACTIVITIES : R & D IN QUARTZ CRYSTALS AND FREQUENCY STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., MALAYSIA, NETHERLANDS, BRAZIL.

PUBLICATIONS & PATENTS : RES. PAPERS - 69, TECH. REPORTS - 1, ARTICLES - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15.

591

MRS MADHU BAHL; (B. FEBRUARY 21, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRONIC ENGINEERING - DELHI ADMINISTRATION '71; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA) '73.

SPECIALIZATIONS : DIGITAL ELECTRONICS.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN DIGITAL AND ANALOG CIRCUITRY.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, PATENTS FILED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13.

592

SHRI INDERJIT BANAUDHA; (B. JANUARY 28, 1938),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '62.

SPECIALIZATIONS : TESTING OF T V RECEIVERS(B/W & COLOUR) & TRANSCEIVERS.

EXPERIENCE : S.L.A., J.T.A., S.T.A AND SCIENTIST A, N.P.L., 1962-81; J.S.O., DEPARTMENT OF ELECTRONICS, NEW DELHI, 1981-84; TECHNICAL OFFICER (B), N.P.L., 1984-86; TECHNICAL OFFICER (C), N.P.L. SINCE APRIL, 1986.

PRESENT ACTIVITIES : ELECTRONIC SERVICE ANALYSIS AND MAINTENANCE OF ELECTRONIC EQUIPMENT.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 5, QLTY. CONTROL - 3, MAINTENANCE - 6, PAPER PRESENTED - 1.

593

SHRI N S BANGARI; (B. JULY 1, 1936),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '56.

SPECIALIZATIONS : CERAMICS; POLYSILICON RODS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., ASSISTANT TECHNICAL OPERATIOR, SCIENTIST A AND TECHNICAL OFFICER (B), N.P.L., 1958-85; TECHNICAL OFFICER (C), N.P.L. SINCE OCTOBER, 1985.

PRESENT ACTIVITIES : APPLIED RESEARCH IN ORGANOMETALLIC COMPOUNDS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF SOLAR CELLS, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, PILOT PLANT - 6, MAINTENANCE - 2, TECHNICAL DEV. - 5.

594

SHRI G BHAGWANNARAYANA; (B. JUNE 1, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : M.SC. PHYSICS - ANDHRA '79.

SPECIALIZATIONS : HIGH RESOLUTION X-RAY DIFFRACTION; DIELECRICS AND FERROELECTRICS; COMPUTER PROGRAMMING.

EXPERIENCE : SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE MARCH, 1988.

PRESENT ACTIVITIES : RESEARCH IN X-RAY DIFFRACTION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 7, DESIGN - 4.

595

SHRI H L B BHASKAR; (B. JANUARY 1, 1942),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRONICS & COMMUNICATION - RANCHI '70.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : J.S.A., SOLID STATE PHYSICS LABORATORY, NEW DELHI, 1976-78; S.S.A. SCIENTIST A AND SCIENTIST B, N.P.L., 1978-89; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : MAINTENANCE, OPERATION & INSTALLATION OF AUDIO-VIDEO SYSTEM; TESTING OF ELECTRO ACOUSTICAL ITEMS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 1, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR CONTRIBUTION TOWARDS HOT JOURNAL BOX DETECTION SYSTEM, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC & APP. RES. - 15.

596

SHRI HARI MOHAN BHATNAGAR; (B. MARCH 11, 1938),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY. NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '81.

SPECIALIZATIONS : MICROWAVE COMPONENTS - STANDARDS & CALIBRATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L, 1962-87; SCIENTIST C, N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 8, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 5.

AWARDS & DISTINCTIONS : NPL AWARD, 1971, 1979; INVENTIONS PROMOTION BOARD AWARD FOR IMPORT SUB-

STITUTION, 1973; J C BOSE MEMORIAL AWARD FOR BEST PAPER, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., TECH. DEV., TESTING AND MAINTENANCE - (TOTAL : 28 YEARS).

597

SHRI O P BHOLA; (B. JANUARY 23, 1937),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '59.

SPECIALIZATIONS : ELECTROPLATING; ANODISING.

EXPERIENCE : DEMONSTRATOR/GUIDE, U.S.I.S., NEW DELHI, 1959-60; J.L.A., S.L.A., J.T.A., S.T.A., TECHNICAL OFFICER(A) AND TECHNICAL OFFICER (B), N.P.L., 1960-86; TECHNICAL OFFICER (C), N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : MAINTENANCE OF STANDARDS, CALIBRATION AND TESTING.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING, QLTY. CONTROL AND MAINTENANCE - (TOTAL : 30 YEARS).

598

DR B C CHAKRAVARTY; (B. AUGUST 2, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) - GAUHATI '71; M.SC. PHYSICS - DELHI '74; PH.D. PHYSICS - DELHI '80.

SPECIALIZATIONS : HIGH PERFORMANCE PV CELLS; POLYSILICON PV CELLS; SOLID STATE DIFFUSION; THERMAL, ANODIC AND PLASMA OXIDATION OF SILICON.

EXPERIENCE : S.S.A. AND SCIENTIST B, N.P.L., 1978-86; (ALSO HIGHER RESEARCH ON PV MATERIALS, UNIVERSITY OF WATERLOO, CANADA, 1982 AND ON HIGH PERFORMANCE PV CELLS, UNIVERSITY OF SOUTH WALES, AUSTRALIA, 1982-83); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN MICROELECTRONIC AND PV MATERIALS AND DEVICES.

LANGUAGES : BENGALI, HINDI, SANSKRIT, ENGLISH.

VISITED : CANADA, AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH REPORTS - 3, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF POLY-SI PV CELLS.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 12, MAINTENANCE - 6.

599

SHRI T K CHAKRAVARTY; (B. JANUARY 5, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : L.M.E. - STATE COUNCIL FOR ENGINEERING & TECHNICAL EDUCATION, WEST BENGAL '68; A.M.I.E. MECHANICAL - INST. OF ENGINEERS (INDIA) '78

SPECIALIZATIONS : MECHANICAL ENGINEERING DESIGN; PRODUCT RESEARCH & DEVELOPMENT.

EXPERIENCE : SENIOR DRAUGHTSMAN, S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MECHANICAL ENGINEERING DESIGN; PRODUCT RESEARCH & DEVELOPMENT FOR OPTICAL MEASUREMENTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 16.

600

SHRI MUKESH CHANDRA; (B. SEPTEMBER 19, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) MATHEMATICS - DELHI '69; M.SC. MATHEMATICS - DELHI '72; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA) '80.

SPECIALIZATIONS : ULTRASONICS; UNDERWATER ACOUSTICS; PARAMETRIC ACOUSTIC ARRAYS; PIEZOELECTRIC DEVICES.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1972-87; (ALSO TRAINING IN APPLIED ULTRASONICS, POLAND, 1977-78); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987

PRESENT ACTIVITIES : R & D IN ULTRASONIC TRANSDUCERS FOR OCEANOGRAPHIC APPLICATIONS AND PARAMETRIC SYSTEMS.

LANGUAGES : HINDI, ENGLISH.

VISITED : POLAND, CANADA, BULGARIA, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, PATENTS TAKEN - 2, TECH. REPORTS - 10, TALKS DELIVERED - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ULTRASONIC TECHNOLOGY, 1979; NRDC AWARD FOR INVENTION OF PIEZOELECTRIC MICROMETER AND LINEAR DRIVE TRANSDUCER, 1981; GOLD MEDAL BY WORLD EXHIBITION OF ACHIEVEMENTS OF YOUNG INVENTORS AT PLOVDIV, BULGARIA, 1985.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 19, DESIGN - 19, TECH. DEV. - 19.

601

MRS ARUNDHATI CHATTERJEE; (B. JUNE 8, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '75; M.SC. PHYSICS - DELHI '77; POST DIPLOMA IN APPLIED ELECTRONICS & MICROWAVE TECHNOLOGY - BOARD

OF TECHNICAL EDUCATION, DELHI '78; M.TECH. MICROWAVE ELECTRONICS - DELHI '81.

SPECIALIZATIONS : MICROWAVE ELECTRONICS.

EXPERIENCE : SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : CANADA.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8.

602

SHRI MIHIR KUMAR CHAUDHURI; (B. OCTOBER 2, 1942),

SCIENTIST C. NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - BURDWAN '63; L.M.E. - WEST BENGAL '65; A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS (INDIA) '70.

SPECIALIZATIONS : METROLOGY; MATERIALS TESTING FORCE STANDARDS.

EXPERIENCE : TECHNICAL ASSISTANT, R.E.C., DURGAPUR, 1966-74; S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : CALIBRATION OF FORCE MEASURING DEVICES; VERIFICATION OF MATERIALS TESTING MACHINES; TESTING OF ENGINEERING MATERIALS; DESIGN AND FABRICATION OF STANDARD FORCE APPLICATION MACHINE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING AND CALIBRATION - 16, TEACHING - 9.

603

DR(MRS) SANTA CHAWLA; (B. JANUARY 4, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - NORTH BENGAL '74; M.SC. PHYSICS - B.H.U. '77; PH.D. PHYSICS - B.H.U. '84.

SPECIALIZATIONS : STRUCTURAL & ELECTRONIC PROPERTIES OF SEMICONDUCTING MATERIALS; LASER COOLING OF ATOMS; THERMO LUMINESCENCE PROPERTIES AND CHRONOLOGY OF EARTH SEDIMENTS.

EXPERIENCE : J.R.F., S.R.F., B.H.U., VARANASI, 1978-83; POOL OFFICER, P.D.F. PHYSICAL RESEARCH LAB., AHMEDABAD, 1986-90; R.A., GUJARAT UNIVERSITY, AHEMDABAD, 1991-92; SCIENTIST C, N.P.L. SINCE JUNE, 1992.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : BENGALI, ENGLISH, HINDI, GERMAN.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, ARTICLES - 1, PAPER PRESENTED AT INTERNATIONAL CONFERENCES - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 7, APPLIED RESEARCH - 8.

604

MRS PARVATI CHOPRA; (B. JULY 4, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA) '74.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1970- 88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : PAYLOADS FABRICATION FOR ROCKET FLIGHTS AND LAYOUT DESIGNING OF CIRCUITS FOR SATELLITES(SROSS); DATA PROCESSING OF SROSS PAYLOAD TESTS USING LOTUS SOFTWARE OF BASIC PROGRAMMING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN AND TECH. DEV. - 17.

605

SHRI RAJEEV CHOPRA; (B. MARCH 16, 1959),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. CHEMICAL - RAVISHANKAR '81.

SPECIALIZATIONS : CHEMICAL PLANT ERECTION AND COMMISSIONING; HEAT TREATMENT; SYNTHESIS OF SUPERHARD MATERIALS.

EXPERIENCE : SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : R & D IN SYNTHESIS OF SUPERHARD MATERIALS; SYNTHESIS AND STUDY OF PROPERTIES OF PYROPEKNORRINGITE GARNET SERIES; R & D IN HIGH HIGH PRESSURE PHYSICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8.

606

DR RAJ SINGH DABAS; (B. DECEMBER 15, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '70; M.SC. MATHEMATICS - DELHI '72; M.SC. PHYSICS - KURUKSHETRA '75; PH.D. IONOSPHERIC PHYSICS - KURUKSHETRA '80.

SPECIALIZATIONS : IONOSPHERIC PHYSICS; TROPOSPHERIC PHYSICS.

EXPERIENCE : SCIENCE TEACHER, GOVERNMENT HIGHER SECONDARY SCHOOL, DELHI ADMINISTRATION, DELHI, 1977-79; S.R.F., P.D.F. AND SCIENTIST B, N.P.L., 1980-86; SCIENTIST C, N.P.L. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : RESEARCH IN TROPOSPHERIC AND IONOSPHERIC SCIENCES RELATED TO RADIO COMMUNICATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, TEACHING - 2.

607

DR H S DAHIYA; (B. OCTOBER 6, 1942),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '62; M.SC. PHYSICS - ROORKEE '66; PH.D. PHYSICS - ROORKEE '72.

SPECIALIZATIONS : LENGTH STANDARD AND LENGTH METROLOGY; NUCLEAR PHYSICS; ELECTRONICS & OPTOELECTRONICS; FREQUENCY STABILIZATION OF LASERS & LASER INTERFEROMETER.

EXPERIENCE : DEMONSTRATOR, A.I. JAT H.M. COLLEGE, ROHTAK, 1962-63; APPRENTICE AND S.L.A., C.B.R.I., ROORKEE, 1963-64; RESEARCH ASSISTANT, ROORKEE UNIVERSITY, ROORKEE, 1966-67; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1973-86; (ALSO ADVANCED TRAINING IN INTERFEROMETRIC MEASUREMENT OF LENGTH AND LENGTH METROLOGY, W. GERMANY, 1976-78); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D; TESTING AND CALIBRATION.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF IODINE STABILIZED HE-NE LASER, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 17, TESTING AND CALIBRATION - 17, TEACHING - 2.

608

SHRI MATI LAL DAS; (B. MAY 14, 1946),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DACCA '66; M.SC. APPLIED PHYSICS - RAJSHAHI '69; HINDI PRAVESH-CENTRAL GOVERNMENT HINDI INSTITUTE '79.

SPECIALIZATIONS : MASS METROLOGY; ELECTROCHEMISTRY; ELECTRONICS.

EXPERIENCE : SUPERINTENDENT OF WORKS, BRIXTON & STEEL, AGARTALA, 1971-77; APPRENTICE, PHILIPS INDIA LTD., 1977; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1977-87; (ALSO TRAINING IN ELECTROCHEMISTRY, CECRI, KARAIKUDI, 1979; DIGITAL ELECTRONICS, HYDERABAD, 1984; MASS CALIBRATION, BIPM, PARIS, 1985; ATTENDED ADVANCED COURSE IN DIGITAL ELECTRONICS INSTRUMENTATION, 1984; CALIBRATION OF NATIONAL PROTOTYPE AT BIPM, PARIS, FRANCE, 1985); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN CALIBRATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 7, TESTING - 8, IND. MANAGEMENT. - 6.

609

DR T L DHAMI; (B. MARCH 17, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '72; M.SC. CHEMISTRY - PANJAB '73; PH.D. CHEMISTRY - PANJAB '79; CERTIFICATE IN GERMAN LANGUAGE - PANJAB '76.

SPECIALIZATIONS : ACTIVATED CARBONS AND CARBON FIBRES DEVELOPMENT; DEVELOPMENT AND CHARACTERISATION OF CARBON FIBER COMPOSITES.

EXPERIENCE : S.S.A. AND SCIENTIST B, N.P.L., 1978-86; (ALSO CNRS FELLOW, CENTRE DE RECHERCHES PHYSICO - CHIMIE DES SURFACES SOLIDS, MULHOUSE, FRANCE, 1984-85); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D OF CARBON PRODUCTS, CARBON FIBRES AND COMPOSITES.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 38, PATENTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 18, TECH. DEV. - 13, TESTING - 4.

610

SHRI AJAY DHAR; (B. SEPTEMBER 16, 1959),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '78; M.SC. PHYSICS - DELHI '80; M.PHIL. PHYSICS - DELHI '81.

SPECIALIZATIONS : FERROELECTRICS AND DIELECTRICS; SYNTHESIS OF SUPERHARD MATERIALS.

EXPERIENCE : SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE NOVEMBER, 1987

PRESENT ACTIVITIES : R & D

LANGUAGES : KASHMIRI, HINDI, ASSAMESE, ENGLISH

PUBLICATIONS & PATENTS : RES. PAPERS - 7

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 7

611

SHRI JAGDISH KUMAR DHAWAN; (B. APRIL 2, 1945),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.E.TECH. MECHANICAL ENGINEERING - DELHI '71; A.M.I.E. METALLURGICAL ENGINEERING - INSTITUTION OF ENGINEERS (INDIA) '75; CERTIFICATE IN GERMAN LANGUAGE - DELHI '83.

SPECIALIZATIONS : FORCE STANDARDS; CALIBRATION.

EXPERIENCE : J.S.A., SOLID STATE PHYSICAL LABORATORY, MINISTRY OF DEFENCE, NEW DELHI, 1969-72; CHARGEMAN, ASSISTANT FOREMAN AND FOREMAN, DIRECTORATE GENERAL OF INSPECTION, MINISTRY OF DEFENCE, NEW DELHI, 1972-80; SCIENTIST B, N.P.L., 1980-85; SCIENTIST C, N.P.L. SINCE MAY, 1985; (ALSO TRAINING, UNDER NPL-PTB TECHNICAL COOPERATION PROGRAMME, IN FORCE MEASUREMENT, DESIGN AND DEVELOPMENT OF STANDARDS OF FORCE, BRAUNRCHWEIG, FRG).

PRESENT ACTIVITIES : UPDATING THE MECHANICAL STANDARDS OF FORCE AND HARDNESS; INSPECTION AND TESTING OF ENGINEERING EQUIPMENTS; DEVELOPMENT OF LOAD CELLS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, TECH. DEV. - 5, TESTINGG- 9.

612

DR P N DIXIT; (B. JULY 8, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KANPUR '68; M.SC. PHYSICS - AGRA '71; PH.D. PHYSICS - B.H.U. '77.

SPECIALIZATIONS : THIN FILM SOLID STATE DEVICES; PHOTOVOLTAIC SOLAR CELLS; HYDROGENATED AMORPHOUS-SILICON THIN FILM DEVICES; VACUUM TECHNOLOGY.

EXPERIENCE : J.R.F. (CSIR) AND J.R.F. (BHU), INSTITUTE OF TECHNOLOGY, B.H.U., 1971-76; S.R.F. (UGC), DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION, JADAVPUR UNIVERSITY, CALCUTTA, 1976-77; RESEARCH ASSOCIATE, I.I.T., KANPUR, 1977-81; SCIENTIST B, N.P.L., 1981-86; SCIENTIST C, N.P.L. SINCE APRIL, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 31, PATENTS TAKEN - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 18, DESIGN - 4, TECH. DEV. - 7.

613

SHRI S DWIVEDI; (B. DECEMBER 3, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '76.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : SENIOR DOCUMENTATION ASSISTANT, DOCUMENTATION OFFICER (A) AND SCIENTIST B, N.P.L., 1979-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING AND TRANSLATION FROM ENGLISH TO HINDI AND VICE VERSA; CONVENOR, OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE EDITING- 11, TRANSLATION - 11.

614

SHRI RAKESH KUMAR GARG; (B. DECEMBER 8, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - MEERUT '71; M.SC. PHYSICS - MEERUT '73.

SPECIALIZATIONS : INFRARED MATERIALS, DETECTORS AND SYSTEMS; INFRARED SPECTROSCOPY; ELECTRONICS.

EXPERIENCE : J.R.F., S.S.A. AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 32, PATENTS TAKEN FILED - 1.

AWARDS & DISTINCTIONS : NPL AWARD, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 16.

615

SHRI GOPAL KRISHAN GOEL; (B. OCTOBER 1, 1935),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '56.

SPECIALIZATIONS : MAINTENANCE, CALIBRATION AND MONITORING OF TIME & FREQUENCY STANDARDS.

EXPERIENCE : J.L.A., S.L.A., S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1958-87; TECHNICAL OFFICER (C), N.P.L. SINCE MARCH, 1987.

PRESENT ACTIVITIES : MAINTENANCE, CALIBRATION AND MONITORING TIME AND FREQUENCY STANDARDS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16. POPULAR SCIENCE ARTICLES(HINDI) - 100.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING, QLTY.CONTROL, MAINTENANCE AND EDITING - (TOTAL : 30 YEARS).

616

SHRI R C GOEL; (B. JANUARY 30, 1942),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '62.

SPECIALIZATIONS : FERRITE MATERIALS AND COMPONENTS; TECHNICAL CERAMICS.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1963-90; TECHNICAL OFFICER (C), N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN TECHNICAL CERAMICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 4, PATENTS FILED - 1, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 15, TESTING - 21, PRODUCTION - 10.

617

SHRI V K GOGIA; (B. JANUARY 8, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

618

DR(MRS) S NIRANJANA N GOSWAMI; (B. NOVEMBER 17, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

619

SHRI VIJAY KUMAR GUMBER; (B. OCTOBER 31, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - GURU NANAK DEV '78; M.SC. PHYSICS - PANJAB '80.

SPECIALIZATIONS : ELECTRONICS; SOLID STATE PHYSICS.

EXPERIENCE : LECTURER, D.A.V. COLLEGE, HOSHIARPUR, 1981-82; SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : R & D IN MICROELECTRONICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, TEACHING - 1.

620

SHRI ANIL KUMAR GUPTA; (B. APRIL 27, 1959),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '77; B.SC. (ENGG.) MECHANICAL - RANCHI '81.

SPECIALIZATIONS : AUTOMOTIVE ENGINEERING.

EXPERIENCE : ENGINEER TRAINEE, FLOWMORE PVT. LTD., 1982-83; SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN FORCE STANDARDS; CALIBRATION OF FORCE MEASURING DEVICES.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, TESTING AND CALIBRATION - 8.

621

DR D GUPTA; (B. MAY 7, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - JAMMU '71; M.SC. PHYSICS - JAMMU '73; PH.D. MOLECULAR PHYSICS - JAMMU '80.

SPECIALIZATIONS : MOLECULAR PHYSICS AND MOLECULAR SPECTROSCOPY; INFRARED PHYSICS AND STANDARDS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1978-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : DOGRI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 28, RESEARCH REPORT - 3, POPULAR ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 12, TESTING AND MAINTENANCE - 12.

622

SHRI J K GUPTA; (B. JANUARY 20, 1941),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '63; M.SC. MATHEMATICS - MEERUT '72; CERTIFICATE IN FORTRAN PROGRAMMING - DELHI COLLEGE OF ENGINEERING '71.

SPECIALIZATIONS : DATA ANALYSIS; COMPUTER PROGRAMMING.

EXPERIENCE : SCIENCE TEACHER, GURUKUL MAHAVIDYALAYA, HARDWAR, U.P., 1963; SCIENTIFIC ASSISTANT, U.P. IRRIGATION RESEARCH INSTITUTE, ROORKEE, 1963-65; LABORATORY ASSISTANT, STATISTICAL ASSISTANT, S.T.A., SCIENTIST A AND SCEINTIST B, N.P.L., 1965-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : DATA ANALYSIS AND COMPUTER PROGRAMMING - ANALYSIS OF FARADAY ROTATION RECORDS FOR FARADAY POLARISATION FLUCTUATIONS, POST SUNSET SECONDARY MAXIMUM AND IONOSPHERIC ELECTRON CONTENT; DEVELOPMENT OF ATMOSPHERIC DRAG SOFTWARE FOR SROSS SATELLITE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, RESEARCH REPORTS - 6 SYMPOSIUM PROC. - 2.

AWARDS & DISTINCTIONS : NPL MERIT AWARD FOR IDENTIFYING TROPOSPHERIC EFFECTS ON VHF RADIO WAVE PROPAGATION, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, TEACHING - 1.

623

SHRI PRABHAT K GUPTA; (B. JANUARY 15, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - KANPUR '76; A.I.C. - CALCUTTA.

SPECIALIZATIONS : ORGANIC CHEMISTRY; ANALYTICAL CHEMISTRY; ATMOSPHERIC CHEMISTRY.

EXPERIENCE : LECTURER, GANJDUNDWARA COLLEGE, GANJDUNDWARA, U.P., 1977; J.R.F., J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1977-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN CHARACTERIZATION OF MATERIALS AND GAS CHROMATOGRAPHY; GREEN-HOUSE MOLECULES BUDGETING.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

AWARDS & DISTINCTIONS : FELLOW, INDIAN CHEMICAL SOCIETY; MEMBER, 8TH INDIAN SCIENTIFIC EXPEDITION, 1988-89.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, TESTING - 5, QLTY. CONTROL - 3, TEACHING - 1.

624

SHRI S K GUPTA; (B. JULY 1, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. MECHANICAL ENGINEERING - DELHI '74; M. TECH. MECHANICAL ENGINEERING - I.I.T., DELHI '77.

SPECIALIZATIONS : HEAT AND MASS TRANSFER; SOLAR ENERGY.

EXPERIENCE : SCIENTIST B, N.P.L., 1979-84; SCIENTIST C, N.P.L. SINCE APRIL, 1984; (PRESENTLY WITH DNES, NEW DELHI).

PRESENT ACTIVITIES : R & D ON SOLAR DEVICES.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., DESIGN AND TECH. DEV. - (TOTAL: 8 YEARS).

625

SHRI SITA RAM GUPTA; (B. MAY 6, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '69; M.SC. PHYSICS - MEERUT '71.

SPECIALIZATIONS : TESTING & CALIBRATION OF AC ELECTRICAL MEASURING INSTRUMENTS.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1975-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN AC CURRENT AND VOLTAGE MEASUREMENT; TESTING & CALIBRATION OF ELECTRICAL MEASURING INSTRUMENTS AND CURRENT & POTENTIAL TRANSFORMERS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : CANADA, GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS & TECH. REPORTS - 16.

AWARDS & DISTINCTIONS : NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 15, TESTING - 15, QLTY. CONTROL - 15, MAINTENANCE - 15.

626

MRS KIRAN JAIN; (B. FEBRUARY 9, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '74; M.SC. PHYSICS - RAJASTHAN '76; M.TECH. SOLID STATE MATERIALS - I.I.T., DELHI '79.

SPECIALIZATIONS : MICROWAVE ELECTRONICS; PHOTOVOLTAIC PROPERTIES OF POLYMERS; SOLID STATE MATERIALS; CERAMICS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1980-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN TECHNICAL CERAMICS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, PUB. - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

627

SHRI THOMAS JOHN; (B. MAY 31, 1959),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - KERALA '81.

SPECIALIZATIONS : ELECTRONICS; SPACE PHYSICS; MIDDLE ATMOSPHERIC PHYSICS.

EXPERIENCE : SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE APRIL, 1988

PRESENT ACTIVITIES : DEVELOPMENT AND TESTING OF ROCKET, BALLOON AND SATELLITE PAYLOADS FOR THE SCIENTIFIC STUDIES OF MIDDLE AND UPPER ATMOSPHERE.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH REPORTS - 3, PAPER PUBLISHED IN JOURNALS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., TECH. DEV. AND TESTING - (TOTAL: 8 YEARS).

628

SHRI M C JUSHT; (B. JULY 10, 1938),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRICULATION - PANJAB '55.

SPECIALIZATIONS : GLASS BLOWING.

EXPERIENCE : APPRENTICE, GLASS BLOWER, FINE MECHANIC, CHIEF GLASS BLOWER, S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1958-86; TECHNICAL OFFICER (C), N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : FABRICATION OF SCIENTIFIC GLASS APPARATUS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENTIFIC GLASS INSTRUMENTATION - 26.

629

SHRI H S KALSI; (B. JUNE 15, 1941),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '61.

SPECIALIZATIONS : FERRITE MATERIALS AND COMPONENTS; CERAMICS AND METAL OXIDE VARISTORS.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A AND TECNICAL OFFICER (B), N.P.L., 1962-87; TECHNICAL OFFICER (C), N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : DEVELOPMENT OF MATERIALS AND COMPONENTS.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 5, PATENTS TAKEN - 2, PATENTS FILED - 2, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24, TECH. DEV. - 22, PILOT PLANT - 16, PRODUCTION - 10.

630

DR HEM CHANDRA KANDPAL; (B. NOVEMBER 16, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '73; M.SC. PHYSICS - KUMAUN '75; PH.D. PHYSICS - KUMAUN '80.

SPECIALIZATIONS : SPECTROSCOPY; RADIOMETRY.

EXPERIENCE : LECTURER, D.S.B.C. COLLEGE, NAINITAL, 1979-80; RESEARCH ASSOCIATE, I.I.T., KANPUR, 1980-81; LECTURER, GOVERNMENT P.G.COLLEGE, KASHIPUR, 1981-82; SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D IN OPTICS OF RADIOMETRY.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 40.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, TEACHING - 3.

631

SHRI SHASHI BHUSHAN KAPAHI; (B. OCTOBER 19, 1941),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : HIGHER SECONDARY - DELHI '58; F.SC. - PUNJAB '59.

SPECIALIZATIONS : GLASS INSTRUMENTATION.

EXPERIENCE : APPRENTICE, GLASS BLOWER, FINE MECHANIC, SUPERVISOR, CHIEF GLASS BLOWER, TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1958-86; TECHNICAL OFFICER (C), N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : GLASS BLOWING.

LANGUAGES : HINDI, PUNJABI, URDU, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 34.

632

DR(MRS) MEENAKSHI KAR; (B. MAY 30, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '70; M.SC. PHYSICS - ALLAHABAD '72; D.PHIL. APPLIED PHYSICS - ALLAHABAD '78; CERTIFICATE IN FORTRAN PROGRAMMING - DELHI '82; PROFICIENCY CERTIFICATE IN GERMAN LANGUAGE - ALLAHABAD '74.

SPECIALIZATIONS : THIN FILMS; SOLID STATE ELECTRONICS; COMPUTER SOFTWARE; X-RAYS

EXPERIENCE : S.S.A. AND SCIENTIST B, N.P.L., 1977-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D, DESIGN AND CHARACTERISATION OF THIN FILM OPTICAL DEVICES; DEPOSITION OF THIN FILMS.

LANGUAGES : BENGALI, HINDI, SANSKRIT, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, DESIGN - 7, OPERATION - 13, COMPUTER SOFTWARE - 8.

633

SHRI RAVI MOHAN KHANNA; (B. JULY 16, 1943),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - J & K '64; D.M.I.T. ELECTRONICS & TELECOMMUNICATION ENGINEERING - M.I.T., MADRAS '69.

SPECIALIZATIONS : VHF AND UHF TROPOSCATTER COMMUNICATION LINKS; ROCKET PAYLOADS; VT FUSE FOR FIELD GUN; SOUND DETECTION AND RANGING SYSTEMS; DOPPLER ACOUSTIC RADARS.

EXPERIENCE : S.S.A., HIMALAYAN RADIO PROPAGATION UNIT (DEAL) UNDER DEFENCE R & D,DEHRA DUN, 1969-75; S.S.A., SOLID STATE PHYSICS LABORATORY, DELHI, 1975-77; SCIENTIST B, N.P.L., 1977-82; (ALSO TRAINING IN COMPUTER PROGRAMMING AND MICROPROCESSOR BASED DESIGNS, DELHI, 1981 AND 1982); SCIENTIST C, N.P.L. SINCE MAY, 1982.

PRESENT ACTIVITIES : R & D IN ACOUSTIC SOUNDING OF THE LOWER ATMOSPHERE; DEVELOPMENT OF DOPPLER SODAR.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 21, DESIGN - 21, TECH. DEV. - 21

634

DR NEERAJ KHARE; (B. AUGUST 16, 1958),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '77; M.SC. PHYSICS - ALLAHABAD '79; PH.D. PHYSICS - B.H.U. '86.

SPECIALIZATIONS : SQUIDS & JOSEPHSON JUNCTIONS; HIGH TC SUPERCONDUCTORS; SEMICONDUCTING FILMS.

EXPERIENCE : LECTURER, AVADH UNIV - 1987-88; SCIENTIST B, N.P.L., 1988-92; SCIENTIST C, N.P.L. SINCE APRIL, 1992.

LANGUAGES : HINDI, ENGLISH.

VISITED : ITALY, U.K, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 1, ARTICLES - 2, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : YOUNG SCIENTIST AWARD, INDIAN SCIENCE CONGRESS ASSOCIATION, 1983; CSIR YOUNG SCIENTIST AWARD, 1991; BEST PAPER AWARD, M R S I.

RESEARCH - 3, DOCUMENTATION - 1.

635

SHRI F C KHULLAR; (B. SEPTEMBER 15, 1943),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA (ELECTRICAL) - I.T.I., DELHI '62; M.A. POLITICAL SCIENCE - MEERUT '71; P.G. DIPLOMA IN PERSONNEL MANAGEMENT - BHARATIYA VIDYABHAVAN, DELHI '82.

SPECIALIZATIONS : TESTING OF ELECTRICAL COMPONENTS; PUBLIC RELATIONS & INFORMATION; HUMAN RESOURCE DEVELOPMENT.

EXPERIENCE : J.L.A., FINE MECHANIC, J.T.A., S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1965-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 17, PUBLIC RELATIONS & INFORMATION - 10, MANPOWER TRAINING, ORGANISING SYMPOSIA AND CONFERENCES - 10.

636

SHRI S M KHULLAR; (B. JANUARY 1, 1939),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '62; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - DELHI '73; M.A. PHILOSOPHY - DELHI '72; ASSOCIATE OF THE INSTITUTION OF CHEMISTS - CALCUTTA '84.

SPECIALIZATIONS : CONDUCTIVE SILVER PAINTS; REACTIVE ALUMINAS; FERRITES; MAGNETIC TAPE MATERIALS; HTSC MATERIALS.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.T.A., SCIENTIST A AND TECHNICAL OFFICER (B), N.P.L., 1963-85; TECHNICAL OFFICER (C), N.P.L. SINCE AUGUST, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, URDU, ENGLISH, ITALIAN, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, PATENTS TAKEN - 5, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT AND PRODUCTION OF FERRITES, 1972.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, TECH. DEV. - 20, CONSULTANCY - 1, QLTY. CONTROL - 20, PRODUCTION - 17.

637

DR HARI KISHAN; (B. DECEMBER 9, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '69; M.SC. PHYSICS - KURUKSHETRA '71; PH.D. PHYSICS - DELHI '86.

SPECIALIZATIONS : CRYOGENICS; ELECTRICAL CONDUCTIVITY; LOW TEMPERATURE BASIC MEASUREMENTS.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1971-85; SCIENTIST C, N.P.L. SINCE AUGUST, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECHNICAL REPORTS - 2, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : PROF M C JOSHI MEMORIAL AWARD FOR DEVELOPMENT OF STIRLING CYCLE BASED LIQUID AIR PLANT, INDIAN CRYOGENICS COUNCIL, 1985.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP. RES. - 19.

638

DR RAM KISHORE; (B. APRIL 3, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '70; PH.D. PHYSICS - AGRA '83.

SPECIALIZATIONS : CHEMICAL VAPOUR DEPOSITION; CRYSTALLISATION OF SILICON & GERMANIUM; PHOTOVOLTAIC TRANSPORT PROPERTIES OF SILICON.

EXPERIENCE : INVESTIGATOR, S.L.A., J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1970-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D ON SILICON SOLAR CELLS, CVD, LPCVD AND TRANSPORT PROPERTIES OF SILICON; PECVD OF SILICON NITRIDE, GROWTH AND CHARACTERISATION OF GERMANIUM FOR IR APPLICATION.

LANGUAGES : HINDI, URDU, ENGLISH, FRENCH.

VISITED : U.K., FRANCE, AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, PATENTS TAKEN - 1, PATENTS FILED - 2.

AWARDS & DISTINCTIONS : NPL AWARD, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 19.

639

SHRI N K KOHLI; (B. FEBRUARY 2, 1940),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.A. WITH MATHEMATICS - BHAGALPUR '65.

EXPERIENCE : LABORATORY ASSISTANT, RAM GANGA CONSTRUCTION PROJECT, KALAGARH, U.P., 1958-60; J.L.A., S.L.A., J.T.A., S.M.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1960-86; TECHNICAL OFFICER (C), N.P.L. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : MASS METROLOGY.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 18, TESTING - 4, INFORMATION DISSEMINATION - 5.

640

SHRI P K KOHLI; (B. MAY 27, 1936),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.A. ECONOMICS - AGRA '63.

SPECIALIZATIONS : INDUSTRIAL LIAISON; PUBLIC RELATIONS; TECHNOLOGY UTILIZATION; EDITING AND PUBLICATION.

EXPERIENCE : SENIOR STENOGRAPHER, C.D.R.I. AND N.P.L., 1959-64; S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1964-89; TECHNICAL OFFICER (C), N.P.L. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : INDUSTRIAL LIAISON, TECHNOLOGY TRANSFER UTILISATION AND RELATED MATTERS; EDITING AND PUBLICATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 23.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNO-ECONOMIC SURVEYS - 8, TECHNOLOGY TRANSFER - 18, SALES MARKETING/PURCHASE - 8, ADMN. - 5, EDITING - 10, EXTENSION - 18.

641

DR R K KOTNALA; (B. OCTOBER 2, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '76; M.SC. PHYSICS - MEERUT '78; PH.D. SOLAR CELLS - I.I.T., DELHI '82.

SPECIALIZATIONS : SILICON SOLAR CELLS; SEMICONDUCTOR DEVICES; SUPERCONDUCTIVITY; MAGNETO-OPTICALLY ACTIVE THIN FILMS.

EXPERIENCE : RESEARCH FELLOW (CSIR), N.P.L., 1978-82; SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE OCTOBER, 1987;(ALSO VISITING IN TOKYO INSTITUTE OF TECHNOLOGY, TOKYO, 1989-90).

PRESENT ACTIVITIES : PREPARATION OF SUPERCONDUCTING MATERIALS AND MAGNETIC MATERIALS FOR HIGH DENSITY RECORDING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 32, TECH. REPORTS - 5, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., DESIGN, OPERATION, TESTING, QLTY. CONTROL, MAINTENANCE AND PRODUCTION - (TOTAL : 13 YEARS).

642

SHRI CHANDAN SINGH KOTWAL; (B. JUNE 20, 1935),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE OF COMPETENCY (CLASS I) IN ELECTRICAL WIRING - DELHI ADMN. '59.

EXPERIENCE : ATTENDANCE, MISTRY, MECHANIC, FINE MECHANIC, SUPERVISOR MECHANIC, J.T.A., S.T.A., TECHNICAL OFFICER (A) AND TECNICAL OFFICER (B), N.P.L., 1957-86; TECHNICAL OFFICER (C), N.P.L. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : ELECTRICAL & MECHANICAL FABRICATION OF GLASS INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, FABRICATION AND MAINTENANCE - (TOTAL: 30 YEARS).

643

SHRI KEWAL KRISHAN; (B. SEPTEMBER 15, 1941),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PUNJAB '64; GRAD. I.E.T.E. ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING - I.E.T.E., NEW DELHI '73.

SPECIALIZATIONS : ELECTRONICS & ELECTRICAL MEASUREMENTS; TESTING AND CALIBRATION; ELECTRONICS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L. 1982-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : CALIBRATION AND MAINTENANCE OF INHOUSE STANDARDS IN ELECTRONICS & ELECTRICAL MEASUREMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN - 5, TECH. DEV. - 5, PILOT PLANT - 2, CONSULTANCY - 10, TESTING - 18, QLTY. CONTROL - 3, MAINTENANCE - 5.

644

SHRI M RAMA KRISHNA; (B. JULY 1, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

645

SHRI MAN MOHAN KRISHNA; (B. NOVEMBER 23, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '68; M.SC. PHYSICS - ALLAHABAD '70; CERTIFICATE IN COMPUTER PROGRAMMING (FORTRAN - IV) - DELHI '76.

SPECIALIZATIONS : LOW TEMPERATURE ELECTRICAL & THERMAL PROPERTIES OF MATERIALS; NONLINEAR OPTIMISATION PROBLEMS; SUPERCONDUCTING MATERIALS PREPARATION AND CHARACTERISATION; THERMAL INSULATION CHARACTERISATION.

EXPERIENCE : J.R.F., ALLAHABAD UNIVERSITY, 1970-74; (ALSO STUDIES IN SOLID STATE PHYSICS, SUMMER SCIENCE INSTITUTE IN SOLID STATE PHYSICS, B.H.U., 1972); S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 10, TECH. DEV. - 2, TESTING - 2, COMPUTER PROGRAMMING - 2.

646

SHRI R K KULSHRESTHA; (B. JULY 7, 1951)),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG.) MECHANICAL - A.M.U. '73.

SPECIALIZATIONS : COLD HYDROSTATIC EXTRUSION OF MATERIALS; HIGH PRESSURE STANDARDS; CARBON TECHNOLOGY; DEVELOPMENT OF SPECIAL COAL TAR PITCHES AND NEWER CARBON MATERIALS.

EXPERIENCE : J.R.F., S.S.A. AND SCIENTIST A, N.P.L., 1976-82; SCIENTIST B. C.M.E.R.I., DURGAPUR, 1982-83; SCIENTIST B, N.P.L., 1983-87; (ALSO HIGHER TRAINING IN PRESSURE STANDARDS WITH REFERENCE TO PRESSURE METROLOGY UNDER UNDP, ITALY, 1985-86). SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN CARBON TECHNOLOGY; DEVELOPMENT OF QI FREE COAL TAR PITCHES AND GLASSY CARBONS, PITCH BASED NEWER CARBON MATERIALS.

LANGUAGES : HINDI, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., DESIGN, PILOT PLANT, OPERATION AND MAINTENANCE-(TOTAL: 15 YEARS).

647

SHRI SUDARSHAN KUMAR; (B. SEPTEMBER 9, 1935),

SCIENTIST C, NATONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - LUCKNOW '57; DIPLOMA IN LIBRARY SCIENCE - PANJAB '65; CERTIFICATE IN GERMAN LANGUAGE - MAX MULLER BHAWAN, NEW DELHI '64; CERTIFICATE IN RUSSIAN LANGUAGE - DELHI '66.

SPECIALIZATIONS : ELECTRONICS; DOCUMENTATION AND LIBRARY SCIENCE.

EXPERIENCE : SCIENTIFIC ASSISTANT, INDIA METEOROLOGICAL DEPARTMENT, NEW DELHI, 1957-70; SENIOR DOCUMENTATION ASSISTANT, DOCUMENTATION OFFICER (A) AND SCIENTIST B, N.P.L., 1970-85; SCIENTIST C, N.P.L. SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION AND LIBRARY MANAGEMENT.

LANGUAGES : HINDI, ENGLISH, GERMAN, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 13, DOCUMENTATION - 20.

648

DR(MRS) SANTOSH KUMARI; (B. JULY 4, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

649

DR(MRS) NAMITA KUNDU; (B. JULY 29, 1937),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - UTKAL '56; M.SC. PHYSICS - UTKAL '58; M.S. PHYSICS - UNIVERSITY OF WISCONSIN, U.S.A. '67; PH.D. PHYSICS - ALLAHABAD '73.

SPECIALIZATIONS : ATMOSPHERIC PHYSICS; HIGH RESOLUTION OPTICS.

EXPERIENCE : RESEARCH SCHOLAR, I.A.C.S., JADAVPUR, 1959-60; LECTURER, B.H.U., 1961-70; S.R.F., ALLAHABAD UNIVERSITY, 1970-73; POOL OFFICER (CSIR) AND RESEARCH ASSOCIATE, N.P.L., 1974-80; SCIENTIST B, N.P.L. 1980-85; SCIENTIST C, N.P.L. SINCE OCTOBER, 1985.

PRESENT ACTIVITIES : R & D IN ATMOSPHERIC PHYSICS.

LANGUAGES : BENGALI, HINDI, ENGLISH, FRENCH, GERMAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 14, DESIGN - 19.

650

SHRI CHHOTEY LAL; (B. JULY 11, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '72; M.SC. CHEMISTRY - AGRA '74; PH.D. CHEMISTRY - AGRA '86.

SPECIALIZATIONS : CARBON PRODUCTS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1978-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN CARBON PRODUCTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., TECH. DEV., PILOT PLANT, TESTING AND PRODUCTION - (TOTAL : 12 YEARS).

651

SHRI KASTURI LAL; (B. JULY 2, 1946),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - MEERUT '69.

SPECIALIZATIONS : VACUUM SYSTEM FABRICATION; FINE POWDER TECHNOLOGY; LOW TEMPERATURE TECHNOLOGY.

EXPERIENCE : DEMONSTRATOR, R.R.V.M. HR. SECONDARY SCHOOL, DELHI, 1966-67; SENIOR TEACHER, ST. JOHN'S HR. SECONDARY SCHOOL, MEERUT CANTT., 1969-70; J.S.A., C.R.R.I., NEW DELHI, 1970-73; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1973-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, TEACHING - 2.

652

DR RATAN LAL; (B. NOVEMBER 15, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '71; M.SC. PHYSICS - MEERUT '75; PH.D. PHYSICS - MEERUT '83.

SPECIALIZATIONS : SCATTERING THEORY; SOLID STATE PHYSICS.

EXPERIENCE : LECTURER, REGIONAL ENGINEERING COLLEGE, SILCHAR, 1983-88; SCIENTIST C, N.P.L. SINCE JULY, 1988.

PRESENT ACTIVITIES : BASIC RESEARCH IN CONDENSED MATTER PHYSICS.

LANGUAGES : HINDI, ENGLISH, URDU.

PUBLICATIONS & PATENTS : RES. PAPERS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 15.

653

SHRI TRIPURARI LAL; (B. SEPTEMBER 20, 1949),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. DELHI '69; M.SC. PHYSICS - AGRA '71; M.SC. MATHEMATICS - DELHI '73; CERTIFICATE IN COMPUTER PROGRAMMING (FORTRAN IV) - DELHI COLLEGE OF ENGINEERING '78; PH.D. PHYSICS - UNIVERSITY OF CALIFORNIA, U.S.A. '76.

SPECIALIZATIONS : METROLOGY; MATHEMATICS; COMPUTER PROGRAMMING.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN MASS METROLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN, ITALY.

PUBLICATIONS & PATENTS : RESEARCH REPORT - 4, PAPER - 2, MONOGRAPH - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : METROLOGY - 16.

654

SHRI H K MAINI; (B. MAY 31, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL COMMUNICATION ENGINEERING - STATE BOARD OF TECHNICAL EDUCATION, DELHI '71; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA) '79.

SPECIALIZATIONS : DIGITAL ELECTRONICS.

EXPERIENCE : J.T.A. AND TECHNICAL ASSISTANT, OVERSEAS COMMUNICATION SERVICES, 1971-78; S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1978-88; (ALSO HELD JAPANESE GOVT. FELLOWSHIP, JAPAN, 1984-86); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A HOT BOX DETECTION SYSTEM, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12, INSTALLATION - 3, OPERATION - 1.

655

DR BANSI DHAR MALHOTRA; (B. MARCH 10, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY,

QUALIFICATIONS : B.SC. (HONS) PHYSICS - DELHI '71; M.SC. PHYSICS - DELHI '73; PH.D. PHYSICS - DELHI '80.

SPECIALIZATIONS : CONDUCTING POLYMERS; POSITRON ANNIHILATION; GLASSY POLYMERS AND SUPERCOOLED LIQUIDS; LIQUID CRYSTALS.

EXPERIENCE : J.R.F., S.R.F. AND UNIVERSITY OF SCIENTIST B, N.P.L., 1973-88; SCIENTIST C, N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN POLYMERS, BIOMOLECULAR ELECTRONICS AND BIOSENSORS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K., DENMARK, ITALY, SWITZERLAND, FRANCE, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18.

656

SHRI I A MALIK; (B. DECEMBER 14, 1945),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - STATE BOARD OF TECHNICAL EDUCATION, DELHI '67.

SPECIALIZATIONS : COLD EXTRUSTION DIES; ELECTRICAL DISCHARGE MACHINE; SUPERHARD MATERIAL CUTTING TOOLS.

EXPERIENCE : A.T.O., S.T.A. AND TECHNICAL OFFICER (B), N.P.L., 1974-85; TECHNICAL OFFICER (C), N.P.L. SINCE DECEMBER, 1985.

PRESENT ACTIVITIES : TOOL ROOM AND METAL FORMING; MACHINING AND FABRICATION OF METAL MATRIX COMPOSITES.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : JAPAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 14, TECH. DEV. - 10, MAINTENANCE - 16.

657

MRS SHIKHA MANDAL; (B. DECEMBER 7, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - BHAGALPUR '70; M.SC. STATISTICS - BHAGALPUR '73.

SPECIALIZATIONS : STATISTICS.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1978-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MANPOWER PLANNING, PROJECT COSTING, BUDGETING AND DATA HANDLING.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 10, PLANNING - 10, COMPUTER PROCESSING - 4, EXTENSION - 4, MANPOWER PLANNING - 10.

658

MRS SANTOSH MANRAI; (B. FEBRUARY 17, 1939),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.A. MATHEMATICS - PANJAB '64; DIPLOMA IN GERMAN - PANJAB '67; CERTIFICATE IN COMPUTER PROGRAMMING (FORTRAN IV) - DELHI COLLEGE OF ENGINEERING '72.

SPECIALIZATIONS : OPTICS; CHROMATICITY DETERMINATION; LUMINANCE AND RETROREFLECTANCE MEASUREMENTS.

EXPERIENCE : J.S.A., C.S.I.O., CHANDIGARH, 1965-68; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1968-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : TESTING AND CALIBRATION FOR DETERMINATION OF CHROMATICITY OF VARIOUS LAMPS, GLASSES, FILTERS AND COVERS.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING, CALIBRATION AND COMPUTER PROGRAMMING - (TOTAL : 26 YEARS).

659

DR(MRS) RANJANA MEHROTRA; (B. JULY 2, 1959),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '78; M.SC. PHYSICS - MEERUT '80; PH.D. BIOMECHANICS - I.I.T. DELHI '87.

SPECIALIZATIONS : BIOMECHANICS; PHYSIOLOGICAL FLUID DYNAMICS; MATHEMATICAL MODELLING; BIOMOLECULAR ELECTRONICS & CONDUCTING POLYMERS.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.T. DELHI, 1987; SCIENTIST C, C.M.M.A.C.S./ NISTANDS, 1991-91; SCIENTIST C, N.P.L. SINCE OCTOBER, 1991.

PRESENT ACTIVITIES : RESEARCH AND DEVELOPMENT IN BIOMOLECULAR ELECTRONICS & CONDUCTING POLYMERS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 14.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 13, COMPUTER PROC. - 13.

660

DR S C KANT MISRA; (B. DECEMBER 18, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '65; M.SC. PHYSICS - ROORKEE '68; M.TECH. PHYSICS - I.I.T., DELHI '70; PH.D. ELECTRICAL ENGINEERING - GLASGOW UNIVERSITY, U.K. '74.

SPECIALIZATIONS : SOLID STATE PHYSICS; THIN FILMS.

EXPERIENCE : S.R.F., I.I.T., DELHI, 1970-71; RESEARCH SCHOLAR, UNIVERSITY OF GLASGOW, U.K., 1971-75; POOL OFFICER (CSIR) AND SCIENTIST B, N.P.L., 1975-84; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1984.

PRESENT ACTIVITIES : R & D IN SOLAR ENERGY AND MATERIALS, XERORADIOGRAPHY, PHOTOSENSITORS AND POLYMERS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.K., FRANCE, ITALY, W.GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 38, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A POLYCRYSTALLINE SILICON SOLAR CELL, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 22, R & D MGMT. - 12, TEACHING - 4.

661

SHRI M K MITTAL; (B. AUGUST 1, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - ROORKEE '74; M.TECH. CONTROL ENGINEERING & INSTRUMENTATION - I.I.T., DELHI '87.

SPECIALIZATIONS : T V PICTURE TUBES; ELECTRONIC INSTRUMENTATION; ATTENUATION MEASUREMENT AT R F; AC POWER & ENERGY.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN CALIBRATION OF AC POWER & ENERGY METERS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES. AND DESIGN - 11.

662

SHRI PARDEEP MOHAN; (B. AUGUST 18, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '70; M.SC. PHYSICS - DELHI '72.

SPECIALIZATIONS : VACUUM TECHNOLOGY.

EXPERIENCE : J.R.F., N.P.L., 1973-76; S.S.A., PHYSICAL RESEARCH LABORATORY, AHMEDABAD, 1976-81; SCIENTIST B, N.P.L., 1981-86; (ALSO TRAINING IN VACUUM STANDARDS, U.K., 1983; PERFORMED CALIBRATION OF GAUGES, UNDER UNIDO PROJECT IMGC, ITALY, 1987). SCIENTIST C, N.P.L. SINCE JUNE, 1986;(ALSO TRAINING IN ESTABLISHMENT OF TRANSPER LEAK STANDARDS IN VACUUM STANDARDS, NIST, U.S.A., 1990.

PRESENT ACTIVITIES : R & D IN VACUUM STANDARDS AND TRANSFER LEAK STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., ITALY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, RES./TECH. REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF VACUUM STANDARDS, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17.

663

SHRI MADHAV RAM NAGAR; (B. AUGUST 16, 1936),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA) '73.

SPECIALIZATIONS : CALIBRATION OF HIGH FREQUENCY VOLTAGE AND CURRENT MEASURING DEVICES; GENERAL ELECTRONIC MEASUREMENTS.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1960-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D AND CALIBRATION IN H.F. IMPEDENCE STANDARDS.

LANGUAGES : HINDI, GUJARATI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR ESTABLISHING NATIONAL STANDARDS FOR H F VOLTAGE AND CURRENT, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 20, TESTING AND CALIBRATION - 20, MAINTENANCE - 20.

664

SHRI DEO RAJ NAKRA; (B. MARCH 8, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRONICS & TELECOMMUNICATION - JABALPUR '73.

SPECIALIZATIONS : ELECTRONICS & TELECOMMUNICATION.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1974-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986; (ALSO MEMBER, 5TH INDIAN SCIENTIFIC EXPEDITION TO ANTARCTICA).

PRESENT ACTIVITIES : RESEARCH ON LF AND VLF RECEIVERS; STUDY ON MINOR CONSTITUENTS OF TROPOSPHERE USING LASER; ALSO WORKING ON ENERGETIC PARTICLE SPECTROMETER (EPS) FOR SROSS-3 AERONOMY SATELLITE PROJECT.

LANGUAGES : HINDI, PUNJABI, SANSKRIT, ENGLISH.

VISITED : ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, RES./TECH. REPORTS - 1, WRITE UP - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 13, MAINTENANCE - 13, DEVELOPMENT - 3.

665

SHRI S N NANGIA; (B. JULY 8, 1940),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '64; A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS (INDIA) '77.

SPECIALIZATIONS : CALIBRATION AND MAINTENANCE OF STANDARDS; METROLOGY.

EXPERIENCE : LABORATORY ASSISTANT, C.W. & P.C., NEW DELHI, 1964-68; J.S.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1968-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : CALIBRATION AND MAINTENANCE OF STANDARDS; ESTABLISHMENT OF VISCOSITY SCALE.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, DEVELOPMENT - 3, MAINTENANCE - 19.

666

SHRI R K NAYAR; (B. FEBRUARY 14, 1936),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - CITY & GUILDS (LONDON), U.K. '65.

SPECIALIZATIONS : INSTRUMENTATION; SYNTHESIS OF SUPERHARD MATERIALS AT HIGH PRESSURE AND TEMPERATURE.

EXPERIENCE : MECHANIC, FINE MECHANIC, SENIOR ELECTRICIAN, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1958-85; (ALSO TRAINING IN SYNTHESIS OF SUPERHARD MATERIALS AT HIGH PRESSURE AND TEMPERATURE, UNDER U.N.D.P., JAPAN, 1980-81); TECHNICAL OFFICER (C), N.P.L. SINCE APRIL, 1985.

PRESENT ACTIVITIES : SYNTHESIS OF SUPERHARD MATERIALS AT HIGH PRESSURE & TEMPERATURE.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD AWARD FOR IMPORT SUBSTITUTION OF ULTRASONIC INTERFEROMETER, 1972.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 23, TESTING - 5, MAINTENANCE - 5.

667

SHRI P S NEGI; (B. SEPTEMBER 1, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '77; M.SC. PHYSICS - DELHI '79; M.TECH. MICROWAVE ELECTRONICS - DELHI '81.

SPECIALIZATIONS : ELECTRONICS; MICROWAVE ELECTRONICS.

EXPERIENCE : SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : RESEARCH, DEVELOPMENT AND MAINTENANCE OF ELECTRICAL & ELECTRONIC STANDARDS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES./TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 8.

668

DR VIJAY NARAIN OJHA; (B. SEPTEMBER 9, 1958),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '77; M.SC. PHYSICS - RAJASTHAN '79; M.PHIL. PHYSICS - DELHI '81; PH.D. PHYSICS - DELHI '87.

SPECIALIZATIONS : SEMICONDUCTORS AND JUNCTIONS; PHOTOVOLTAICS; MICROWAVE ELECTRONICS; TESTING & CALIBRATION.

EXPERIENCE : SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : MAINTENANCE, TESTING AND CALIBRATION OF THERMOMETERS, THERMOCOUPLES, PYROMETERS; R & D ON SEMICONDUCTORS AND JUNCTIONS.

LANGUAGES : HINDI, MARATHI, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 22.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, TESTING - 4, MAINTENANCE - 4.

669

DR V K PANDEY; (B. JULY 1, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '65; M.SC. GEOPHYSICS - B.H.U. '67; M.SC. PHYSICS - B.H.U. '70; PH.D. PHYSICS - B.H.U. '79.

SPECIALIZATIONS : IONOSPHERIC PHYSICS; ELECTRONICS; RADIO PHYSICS.

EXPERIENCE : J.R.F., S.R.F., S.S.A. AND SCIENTIST B, N.P.L., 1971-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 6.

AWARDS & DISTINCTIONS : NPL AWARD FOR IONOSPHERIC MODELLING, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20.

670

DR O S PANWAR; (B. MARCH 15, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY. NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) - MEERUT '73; M.SC. PHYSICS - MEERUT '75; PH.D. EXPERIMENTAL SOLID STATE PHYSICS - PANJAB '80.

SPECIALIZATIONS : AMORPHOUS SEMICONDUCTORS; THIN FILM SOLID STATE DEVICES; HYDROGENATED AMORPHOUS SILICON THIN FILMS AND DEVICES; VACUUM TECHNOLOGY.

EXPERIENCE : J.R.F., S.R.F. AND P.D.F., DEPARTMENT OF PHYSICS, PANJAB UNIVERSITY, CHANDIGARH, 1976-81; RESEARCH ASSOCIATE AND S.S.O., THIN FILM LAB DEPARTMENT OF PHYSICS, I.I.T., DELHI, 1981-83; SCIENTIST B, N.P.L., 1983-88; (ALSO RESEARCH FELLOW, MICROELECTRONICS AND ELECTRICAL ENGG., TRINITY COLLEGE, UNIVERSITY OF DUBLIN (IRELAND), OCTOBER, 1987 TO JUNE, 1988; HONORARY RESEARCH FELLOW ELECTRICAL AND ELECTRONIC ENGG., THE QUEENS UNIVERSITY OF BELBAST(U.K.), MAY-JUNE, 1988); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 15, TEACHING - 2.

671

DR V S PANWAR; (B. JANUARY 15, 1940),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '61; M.SC. PHYSICS - MEERUT '81; PH.D. PHYSICS - MEERUT '88.

SPECIALIZATIONS : VACUUM TECHNOLOGY; THIN FILMS; PLOYMER PHYSICS; AIR FILTERATION AND POLLUTION CONTROL.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.T.A., J.S.O. AND SCIENTIST B, N.P.L., 1962-86; SCIENTIST C, N.P.L. SINCE JULY, 1986.

PRESENT ACTIVITIES : R & D IN ELECTROPHOTOGRAPHY, XERORADIOGRAPHY AND POLYMER PHYSICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20. PATENTS TAKEN - 3, PATENTS FILED - 2, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) . BASIC RES. - 10, APP. RES. - 15.

672

SHRI S PARTHASARATHI; (B. MAY 12, 1935),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC. - DELHI '57.

SPECIALIZATIONS : SPECTROGRAPHIC CHARACTERIZATION; COLOUR PHYSICS; PLANETARIUM MANAGEMENT.

EXPERIENCE : S.L.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1958-82; TECHNICAL OFFICER (C), N.P.L. SINCE NOVEMBER, 1982.

LANGUAGES : TAMIL, ENGLISH..

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

673

SHRI GANGA PRASAD; (B. DECEMBER 6, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KANPUR '72; B.E. MECHANICAL - ROORKEE '77.

SPECIALIZATIONS : INDUSTRIAL HYDRAULICS; MACHINE DESIGN.

EXPERIENCE : GRADUATE ENGINEER TRAINEE, M/S. A.I.P. LTD., MORADABAD, U.P., 1978-80; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1980-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : APPLIED RESEARCH IN CRYOGENICS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, DESIGN - 6, PILOT PLANT - 6, OPERATION - 4, MAINTENANCE - 6, PRODUCTION - 2, PLANNING - 2.

674

DR M V S N PRASAD; (B. APRIL 10, 1956),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - S.V. UNIVERSITY '76; POST M.SC. DIPLOMA IN SPACE PHYSICS - KERALA '77; PH.D. PHYSICS - S.V. UNIVERSITY '90.

SPECIALIZATIONS : ELECTRONICS; SPACE PHYSICS.

EXPERIENCE : S.T.A. AND SCIENTIST B, N.P.L., 1979-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN VHF MICROWAVE PROPAGATION AND TROPOSPHERIC MONITORING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : ITALY, CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTD - 6.

AWARDS & DISTINCTIONS : URSI YOUNG SCIENTIST AWARD, 1990; BEST PAPER AWARD FOR LONG DISTANCE VHF PROPAGATION, NATIONAL SCIENCE SYMPOSIUM, NAGPUR, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11.

675

DR S M SHIVA PRASAD; (B. JUNE 9, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KARNATAK '77; M.SC. SOLID STATE PHYSICS - KARNATAK '79; PH.D. THIN FILM PHYSICS - KARNATAK '82.

SPECIALIZATIONS : SURFACE SCIENCE; THIN FILMS; VACUUM SCIENCE & TECHNOLOGY; SOLID STATE PHYSICS.

EXPERIENCE : P.D.F., I.I.T., NEW DELHI, 1983; COMMONWEALTH POST-DOCTORAL FELLOW. UNIVERSITY OF SUSSEX, U.K., 1983-84; POOL OFFICER, C.S.I.R., 1985-89; (ALSO UNDP RESEARCH FELLOW, NATIONAL BUREAU OF STANDARDS, GAITHERSBURG, U.S.A., 1987). SCIENTIST C, N.P.L. SINCE JULY, 1989.

PRESENT ACTIVITIES : RESEARCH IN SURFACE SCIENCE.

LANGUAGES : KANNADA, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8. COMPUTER PROCESSING - 2.

676

SHRI SHER SINGH RAJPUT; (B. JULY 1, 1957),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - ROORKEE '78; M.E. ELECTRONICS & COMMUNICATION - ROORKEE '81.

SPECIALIZATIONS : MICROWAVE SOLID STATE DEVICES; LSI/VLSI DEVICE DESIGN & FABRICATION; OPTICAL COMMUNICATION.

EXPERIENCE : SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF SATELLITE BORNE PAYLOADS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2. TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 8, TECH. DEV. - 8.

677

DR(MRS) VASANTHA RAMAN; (B. APRIL 15, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '67; M.SC. CHEMISTRY - MADRAS '69; PH.D. CHEMISTRY - I.I.T., DELHI '75.

SPECIALIZATIONS : INORGANIC CHEMISTRY; ANALYTICAL CHEMISTRY; STRUCTURAL CHEMISTRY.

EXPERIENCE : P.D.F., S.S.A. AND SCIENTIST B, N.P.L., 1977-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN ANALYTICAL CHEMISTRY AND SOL-GEL TECHNIQUES

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, PATENTS TAKEN - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 9.

678

DR(MISS) RASHMI; (B. FEBRUARY 21, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) PHYSICS - DELHI '73; M.SC. PHYSICS - DELHI '75; PH.D. PHYSICS - I.I.T., DELHI '80.

SPECIALIZATIONS : POLYMER PHYSICS; MATERIALS CHARACTERISATION.

EXPERIENCE : P.D.F., I.I.T., DELHI, 1980-81; P.D.F., NAGOYA UNIVERSITY, JAPAN, 1981-83; POOL OFFICER (CSIR), I.I.T., DELHI, 1983-86; SCIENTIST B, N.P.L., 1986-88; SCIENTIST C, N.P.L. SINCE MAY, 1988.

PRESENT ACTIVITIES : CHARACTERISATION OF MATERIALS; COMPUTER SIMULATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, JAPANESE, RUSSIAN.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, TEACHING - 3.

679

MRS VEENA ROONWAL; (B. AUGUST 3, 1944),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RANCHI '63; M.SC. PHYSICS - ANNAMALAI '85.

SPECIALIZATIONS : DIMENSIONAL METROLOGY.

EXPERIENCE : S.L.A. AND J.S.A., N.M.L., JAMSHEDPUR, 1964 AND 1966-68; J.S.A., N.G.R.I., HYDERABAD, 1968-69; J.S.A., S.T.A., TECHNICAL OFFICER(A) AND TECHNICAL OFFICER (B), N.P.L., 1969-87; TECHNICAL OFFICER (C), N.P.L. SINCE JUNE, 1987.

PRESENT ACTIVITIES : TESTING & CALIBRATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 27.

680

SHRI VED PRAKASH SACHDEVA; (B. JULY 17, 1937),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. MATHEMATICS - AGRA '61.

SPECIALIZATIONS : IONOSPHERIC PHYSICS.

EXPERIENCE : S.L.A., J.S.A, S.S.A, SCIENTIST A AND SCIENTIST B, N.P.L., 1965-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : IONOSPHERIC STUDIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

681

SHRI K K SAINI; (B. DECEMBER 10, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KURUKSHETRA '75; M.SC. PHYSICS - KURUKSHETRA '80; M.PHIL. PHYSICS - KURUKSHETRA '81.

SPECIALIZATIONS : ELECTRONICS; SOLID STATE PHYSICS.

EXPERIENCE : LECTURER, GOVERNMENT COLLEGE, FARIDABAD, GOVERNMENT COLLEGE, BHIWANI AND GOVERNMENT COLLEGE, NARNAUL, HARYANA, 1981-83; SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN ELECTROCHROMIC DISPLAY DEVICES; HIGH TEMPERATURE SUPERCONDUCTIVITY, SPECIALLY THALLIUM BASED.

LANGUAGES : HINDI, SANSKRIT, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8.

682

SHRI ANIL KISHORE SAXENA; (B. DECEMBER 20, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '75; B.E. ELECTRONICS & COMMUNICATION - ALLAHABAD '79.

SPECIALIZATIONS : ELECTRONICS & COMMUNICATION; ELECTRONIC STANDARDS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1980-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN CAPACITANCE, INDUCTANCE AND A.C. RESISTANCE STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.S.R., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6.

683

MRS MITHLESH SAXENA; (B. FEBRUARY 26, 1944),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS - WOMEN'S POLYTECHNIC, DELHI '66; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA '74.

SPECIALIZATIONS : DIGITAL ELECTRONICS; TIME & FREQUENCY SIGNAL DISSEMINATION; MICROPROCESSORS.

EXPERIENCE : ASSISTANT ENGINEER, ASSOCIATED INSTRUMENTS MANUFACTURERS (I) LTD., 1966-68; SUPERVISOR, ETERNAL RADIOS CORPORATION, 1971-72; SENIOR ELECTRICIAN, J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1973-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 28.

AWARDS & DISTINCTIONS : NPL AWARD FOR ESTABLISHMENT OF A SODAR, 1975; NPL AWARD FOR UPDATING TIME AND FREQUENCY STANDARDS, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN - 10, TECH. DEV. - 10.

684

DR T K SAXENA; (B. JULY 1, 1955),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '74; M.SC. PHYSICS - DELHI '76; PH.D. PHYSICS - DELHI '81; CERTIFICATE IN MICROPROCESSORS - I.I.T., DELHI '84.

SPECIALIZATIONS : SEMICONDUCTOR PHYSICS; ELECTRONIC CIRCUITRY; COMPUTER PROGRAMMING.

EXPERIENCE : RESEARCH ASSOCIATE, DELHI UNIVERSITY, 1981-82; SCIENTIST B, N.P.L. 1982-87; SCIENTIST C, N.P.L. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : ELECTRONICS PRECISIONS MEASURING CIRCUITS, COMPUTER PROGRAMMING AND AUTOMATIC CONTROLS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, TECH. DEV. - 15, MAINTENANCE - 7, COMPUTER PROCESSING - 15.

685

SHRI NARENDRA KUMAR SETHI; (B. NOVEMBER 4, 1951),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - OSMANIA '72; M.SC. MATHEMATICS - OSMANIA '75; M.PHIL. COMPUTER METHODS - HYDERABAD '76.

SPECIALIZATIONS : COMPUTER PROCESSING.

EXPERIENCE : S.L.A., R.R.L., HYDERABAD, 1973-77; S.T.A., N.G.R.I., HYDERABAD, 1977-81, SCIENTIST A AND SCIENTIST B, N.P.L., 1981-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : COMPUTER PROGRAMMING AND OPERATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 14.

686

SHRI J C SHARMA; (B. OCTOBER 22, 1953),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - HARYANA TECH. EDUCATION BOARD '72; A.M.I.E. ELECTRICAL ENGINEERING - INSTITUTION OF ENGINEERS (INDIA) '78.

SPECIALIZATIONS : MICROPROCESSOR APPLICATIONS & PROGRAMMING; STROWGER TELEPHONY.

EXPERIENCE : CHARGEMAN AND SECTIONAL OFFICER (ELECTRICAL), B.S.L. PROJECT, H.P., 1972-77; A.T.O., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1977- 90; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : OPERATION, CONSTRUCTION AND MAINTENANCE OF ELECTRICAL POWER DISTRIBUTION SYSTEM; MICROPROCESSOR APPLICATIONS.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES - 2, CONSTRUCTION - 10, OPERATION - 1, MAINTENANCE - 10.

687

SHRI MITTHAN LAL SHARMA; (B. JANUARY 1, 1945),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '64; M.SC. PHYSICS - A.M.U. '66.

SPECIALIZATIONS : RADIO AND TELECOMMUNICATION; NUCLEAR PHYSICS; HIGH VACUUM TECHNOLOGY; FINE POWDERS.

EXPERIENCE : LECTURER, S.S.V. COLLEGE, HAPUR, U.P., 1966-68; J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1968-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN FINE POWDER PREPARATIONS: (A) FREEZE DRYING (B) SPRAY DRYING & HIGH TC THIN FILM SUPERCONDUCTING MATERIALS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, PATENTS TAKEN - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE PREPARATION OF A DEVICE IN DETECTION OF HOT AXLES IN FAST MOVING TRAINS, 1981; A N CHATTERJEE SCROLL OF MERIT, INDIAN CRYOGENICS COUNCIL, CALCUTTA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 11, TEACHING - 2.

688

DR SURINDER DUTT SHARMA; (B. AUGUST 4, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '67; M.SC. PHYSICS - ALLAHABAD '69; PH.D. PHYSICS - ALLAHABAD '75; PROFICIENCY CERTIFICATE IN GERMAN - ALLAHABAD '74.

SPECIALIZATIONS : CRYSTAL GROWTH; X-RAY TECHNIQUE TO STUDY PERFECTION OF CRYSTALS; ELECTRON SPIN RESONANCE.

EXPERIENCE : SCIENTIFIC OFFICER, ORIENTAL SCIENCE APPARATUS WORKSHOPS, AMBALA, HARYANA, 1975-76; S.S.A. AND SCIENTIST B, N.P.L., 1976-86; (ALSO SCIENTIST MEMBER, VI INDIAN SCIENTIFIC EXPEDITION, 1986-87 SUMMER TEAM); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN CRYSTAL GROWTH AND CHARACTERISATION OF CRYSTALS BY X-RAY TOPOGRAPHY.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : ANTARCTICA, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 10, PRODUCTION - 1, TEACHING - 1.

689

SHRI SUSHIL KUMAR SHARMA; (B. JANUARY 1, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '72; M.SC. MATHEMATICS - MEERUT '74; B.LIB. SC. - DELHI '76; M.L.I.SC. LIBRARY & INFORMATION SCIENCE - DELHI '77.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION DISSEMINATION.

EXPERIENCE : S.D.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1978-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DOCUMENTATION AND SCIENTIFIC INFORMATION DISSEMINATION; INFORMATION MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION & SCIENTIFIC INFORMATION DISSEMINATION - 9.

690

SHRI C P SINGH; (B. OCTOBER 16, 1937),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CHEL (R) ELECTRONICS - I.N.S. '63.

SPECIALIZATIONS : SEMICONDUCTORS.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1965-84; TECHNICAL OFFICER (C), N.P.L. SINCE FEBRUARY, 1984.

PRESENT ACTIVITIES : CO-ORDINATION AND LIAISON WORK ASSOCIATED WITH TESTING AND CALIBRATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : SINGAPORE, CEYLON, MALAYSIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10, TECH. DEV. - 10, IND. MGMT. - 4.

691

SHRI MEWA SINGH; (B. JANUARY 9, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - KURUKSHETRA '74.

SPECIALIZATIONS : INORGANIC CHEMISTRY; ANALYTICAL CHEMISTRY.

EXPERIENCE : J.S.A., C.S.I.O., CHANDIGARH, 1975-77; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1982-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN MATERIALS CHARACTERISATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. AND TESTING - 16.

692

DR PARAKRAM KUMAR SINGH; (B. JUNE 16, 1954),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '74; M.SC. PHYSICS - AGRA '76; M.PHIL. PHYSICS - DELHI '79; PH.D. PHYSICS - DELHI '82.

SPECIALIZATIONS : SOLID STATE PHYSICS; MICROWAVES; PHOTOVOLTAICS; MAGNETIC MATERIALS; CRYSTAL GROWTH; PROCESS SIMULATION FOR IC TECHNOLOGY.

EXPERIENCE : SCIENTIST B, N.P.L., 1983-88; SCIENTIST C, N.P.L. SINCE MARCH, 1988

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, CANADA, U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 40.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9.

693

SHRI RAJ SINGH; (B. APRIL 16, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - HARYANA STATE TECHNICAL BOARD '68; A.M.I.E. ELECTRICAL ENGINEERING - INSTITUTION OF ENGINEERS (INDIA) '74; A.M.I.E. MECHANICAL ENGINEERING - INSTITUTION OF ENGINEERS (INDIA) '82.

SPECIALIZATIONS : ELECTRICAL ENGINEERING; REFRIGERATION & AIR CONDITIONING; FLUID FLOW MEASUREMENTS.

EXPERIENCE : J.M.A., TECHNICAL OPERATOR, TECHNICAL OFFICER (A) AND SCIENTIST B, N.P.L., 1971-87; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1987. 1987.

PRESENT ACTIVITIES : RESEARCH & DEVELOPMENT IN FLUID FLOW MEASUREMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION, OPERATION AND MAINTENANCE - 20.

694

SHRI RAMA SHANKAR SINGH; (B. JULY 1, 1946),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - GORAKHPUR '66; DIPLOMA (HORT.) FRUIT PRESERVATION & CANNING - LUCKNOW '66; THREE YEARS SPECIAL COURSE IN INDUSTRIAL HORTICULTURE - CALCUTTA '69.

SPECIALIZATIONS : INDUSTRIAL HORTICULTURE.

EXPERIENCE : HORTICULTURE SUPERINTENDENT, TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1976-90; TECHNICAL OFFICER (C), N.P.L. SINCE OCTOBER, 1990.

LANGUAGES : HINDI, BENGALI, ORIYA, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DEVELOPMENT AND MAINTENANCE OF GARDENS - 28.

695

DR RAMADHAR SINGH; (B. SEPTEMBER 8, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - BIHAR '73; PH.D. PHYSICS - DELHI '80.

SPECIALIZATIONS : SOLID STATE PHYSICS; ELECTROPHOTOGRAPHY; ELECTRONIC AIR FILTERS; POLYMER PHYSICS; NEWER MATERIALS; CONDUCTING POLYMERS.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.T., DELHI, 1980-81; SCIENTIST B, C.G.C.R.I., CALCUTTA, 1981; SCIENTIST B, N.P.L., 1981-86; SCIENTIST C, N.P.L. SINCE MARCH, 1986.

PRESENT ACTIVITIES : RESEARCH IN CONDUCTING POLYMERS, FERROELECTRIC POLYMERS, POLYMER-CERAMIC COMPOSITES AND POLYMER PHYSICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 8, DESIGN - 5, CONSULTANCY - 1.

696

SHRI RANJIT SINGH; (B. FEBRUARY 24, 1963),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) PHYSICS - DELHI '83; M.SC. PHYSICS - DELHI '85; M.TECH. MICROWAVE ELECTRONICS - DELHI '87

SPECIALIZATIONS : MICROWAVE ELECTRONICS; COMMUNICATIONS; COMPUTER PROGRAMMING.

EXPERIENCE : SCIENTIST C, N.P.L. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D IN MICROWAVE ELECTRONICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

AWARDS & DISTINCTIONS : YOUNG SCIENTIST AWARD, INTERNATIONAL UNION OF RADIO SCIENCE TO ATTEND XXIII GENERAL ASSEMBLY OF URSI.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

697

DR SATBIR SINGH; (B. AUGUST 8, 1947),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '67; M.SC. PHYSICS - KURUKSHETRA '69; PH.D. PHYSICS - I.I.T., DELHI '86.

SPECIALIZATIONS : FERRITES; ELECTROSTATIC AIR FILTERATION; ELECTROPHOTOGRAPHY; THIN FILMS.

EXPERIENCE : SCIENTIFIC ASSISTANT (GR.A), B.A.R.C., 1971-73; S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1973-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN MATERIALS SCIENCE.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 9.

698

SHRI VED SINGH; (B. MAY 15, 1940),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '74.

SPECIALIZATIONS : ELECTRONICS; FERRITES; PIEZOELECTRIC AND DIELECTRIC CERAMICS; SOLAR THERMAL ENERGY.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1963-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D ON SOLAR(THERMAL) ENERGY.

LANGUAGES : HINDI, URDU, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, RES./TECH. REPORTS - 3, PATENTS TAKEN - 1, PATENTS FILED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 27.

699

SHRI YESH PAL SINGH; (B. MAY 7, 1956),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '77; M.SC. PHYSICS - MEERUT '79.

SPECIALIZATIONS : ELECTRONICS; TEMPERATURE STANDARDS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1980-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF TEMPERATURE STANDARDS; TESTING AND CALIBRATION OF THERMOMETERS, THERMOCOUPLES AND OPTICAL PYROMETERS; DESIGNING & DEVELOPING OF HEAT PIPE EXTENSION BOTH FOR EXTENDING CALIBRATION FACILITIES FOR TEMPERATURE MEASURING INSTRUMENTS; DESIGNING AND DEVELOPING CRYOGENIC RADIOMETER.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, TESTING AND CALIBRATION - 11

700

SHRI SUBODH KUMAR SINGHAL; (B. JULY 21, 1953),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '73.

SPECIALIZATIONS : UNDERWATER ACOUSTICS; ULTRASONICS; RADIO SCIENCE AND SPACE PHYSICS.

EXPERIENCE : A.T.O., S.T.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1976-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN SPACE AERONOMY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 6, TALKS DELIVERED - 2, PATENTS TAKEN - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF ULTROSONIC AND UNDERWATER ACOUSTIC TRANSDUCERS AND DEVICES.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 10, DESIGN - 10, TECH. DEV. - 3, TESTING/CALIBRATION - 9, QUALITY CONTROL - 3.

701

DR SUNIL KUMAR SINGHAL; (B. JUNE 5, 1953),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - UDAIPUR '74; PH.D. PHYSICS - DELHI '85.

SPECIALIZATIONS : SYNTHESIS OF SUPERHARD MATERIALS.

EXPERIENCE : J.R.F., S.R.F., S.S.A. AND SCIENTIST B, N.P.L., 1975-86; (ALSO TRAINING IN SINGLE CRYSTAL DIAMOND AND C-BN SYNTHESIS AT HIGH PRESSURES AND TEMPERA-

TURES, UNDER UNDP, JAPAN, 1980-81); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN HIGH PRESSURE PHYSICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : PROCESSES DEVELOPED - 2, RESEARCH PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 15.

702

SHRI P SIVARAM; (B. JUNE 4, 1956),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.TECH. CHEMICAL ENGINEERING - OSMANIA '79; M.TECH. CHEMICAL ENGINEERING PLANT DESIGN - OSMANIA '81.

SPECIALIZATIONS : CHEMICAL ENGINEERING PLANT DESIGN.

EXPERIENCE : TRAINEE ENGINEER, M/S WARNER HINDUSTAN LTD., HYDERABAD, 1982-83; SCIENTIST B, N.P.L. 1983-88; SCIENTIST C, N.P.L. SINCE MARCH, 1988.

PRESENT ACTIVITIES : R & D AND PILOT PLANT STUDIES OF CARBON FIBRES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, PRODUCTION - 1.

703

DR VIKRAM SONI; (B. OCTOBER 6, 1949),

UGC RES SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI ' 69; M.SC. PHYSICS - DELHI '71; PH.D. PHYSICS - UNIVERSITY OF CALIFORMIA, U.S.A. '76.

SPECIALIZATIONS : HIGH ENERGY PHYSICS; FIELD THEORY AND STATISTICAL MECHANICS; COSMOLOGY AND PARTICLE PHYSICS; NON LINEAR SOLITONS & STRUCTURES.

EXPERIENCE : LECTURER, UNIVERSITY OF SUSEX, U.K., 1976-77; S.R.F.(CSIR), UNIVERSITY OF MADRAS, 1978-82; VISITING SCIENTIST, CEN SACLAY, FRANCE, 1982-83; VISITING SCIENTIST, UNIVERSITY OF CALIFORNIA, BERKELEY, 1984-84; SENIOR HUMNOLDT FELLOW, UNIVERSITY OF REGENSBURG, WEST GERMANY, 1985-86; CHERCHEUR ASSOCIE, UNIVERSITY PARIS-SUD, FRANCE, 1986-88; UGC PROFESSOR, 1989-89; UGC RES SCIENTIST C, N.P.L. SINCE APRIL, 1989. PRESENT ACTIVITIES: RESEARCH.

LANGUAGES : HINDI, ENGLISH, FRENCH, GERMAN.

VISITED : U.S.A., FRANCE, U.K., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 46.

AWARDS & DISTINCTIONS : SCIENCE EXIHIBITION PRIZE, 1967.

PROFESSIONAL EXPEREINCE(IN YEARS) : BASIC RESEARCH - 17.

704

SHRI NAVIN KUMAR SRIVASTAVA; (B. OCTOBER 17, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '67; M.SC. PHYSICS - LUCKNOW '69.

SPECIALIZATIONS : TEMPERATURE STANDARDS; INFRARED SPECTROSCOPY; CRYSTAL GROWTH; MOSSBAUER SPECTROSCOPY.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1970-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D; TESTING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, ARTICLES - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR THE DEVELOPMENT OF NATIONAL STANDARDS FOR TEMPERATURE MEASUREMENTS, 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20, DESIGN - 20, TECH. DEV. - 20, OPERATION - 20, TESTING - 20, MAINTENANCE - 20. .

705

SHRI P SUBRAHMANYAM; (B. JULY 21, 1953),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC. (TECH.) ELECTRONICS - ANDHRA '75.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : S.S.A. AND SCIENTIST B, N.P.L., 1978-86; SCIENTIST C, N.P.L. SINCE APRIL, 1986.

PRESENT ACTIVITIES : R & D IN SPACE PHYSICS.

LANGUAGES : TELUGU, HINDI. ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6. RES./TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12.

706

SHRI OM PRAKASH TAGRA; (B. MARCH 1, 1937),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN MECHANICAL DRAUGHTSMANSHIP - I.T.I., ROHTAK '56.

SPECIALIZATIONS : PRESS TOOL DESIGN; JIGS AND FIXTURES DESIGN; HYDRAULIC CIRCUITS AND DIE DESIGN FOR COLD EXTRUSION.

EXPERIENCE : DRAUGHTSMAN INSTRUCTOR, BIRLA COLLEGE OF ENGINEERING, PILANI, 1957-58; JUNIOR AND SENIOR DRAUGHTSMAN, C.E.E.R.I., PILANI, 1958-64; J.M.A., N.P.L., 1964-67; S.T.A. AND SCIENTIST A, C.S.I.O., CHANDIGARH, 1967-70; J.M.A., S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1970-87; (ALSO TRAINING IN DESIGN OF

JIGS AND FIXTURES, MADRAS, 1979). TECNICAL OFFICER (C), N.P.L. SINCE APRIL, 1987.

PRESENT ACTIVITIES : DESIGN OF HYDROSTATIC EXTRUDER, EQUIPMENT, DIES, TOOLING JIGS & FIXTURES.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 24, PILOT PLANT - 12.

707

SHRI C B TANDEL; (B. APRIL 1, 1945),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - GUJARAT '67; M.SC. PHYSICS - SOUTH GUJARAT UNIVERSITY '70.

SPECIALIZATIONS : POSITIVE ION DENSITY MEASUREMENT; ENERGETIC CHARGED PARTICLE (KEV) MEASUREMENTS.

EXPERIENCE : ASSISTANT ENGINEER, L.E. ENGINEERING COLLEGE, MORVI, GUJARAT, 1971-72; J.S.A., S.S.A. AND SCIENTIST B, N.P.L., 1972-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : EXPLORATION OF LOWER IONOSPHERE THROUGH ROCKET AND BALLOON EXPERIMENTS.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. DEV. - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, DESIGN - 2, TECH. DEV. - 4, CONSTRUCTION - 2, TESTING - 4, SURVEY OF NATURAL RESOURCES - 1.

708

SHRI LAKHAN SINGH TANWAR; (B. JUNE 1, 1948),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '68; M.SC. PHYSICS - MEERUT '70; M.TECH. PHYSICS - I.I.T., DELHI '73.

SPECIALIZATIONS : MASS AND LENGTH METROLOGY; TEMPERATURE STANDARDS; SPACIAL OPTICAL FILTERING.

EXPERIENCE : SCIENCE TEACHER, GOVERNMENT HIGH SCHOOL, HARYANA, 1970-71; S.S.A. AND SCIENTIST A, N.P.L., 1973-81; (ALSO ADVANCED TRAINING IN LENGTH AND MASS METROLOGY AND DESIGN & DEVELOPMENT OF OPTICAL FEELER FOR LENGTH METROLOGY, W.GERMANY, 1976-78 AND 1979-81); SCIENTIST B, N.P.L., 1981-86; (ALSO DEPUTY DIRECTOR(W&M)-IN-CHARGE, R.R.S.L., AHMEDABAD, 1984-86); SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN MASS AND LENGTH METROLOGY.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN - 3, TECH. DEV. - 3, TESTING - 3.

709

SHRI DEEPAK KUMAR TEWARI; (B. AUGUST 21, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - KURUKSHETRA '72; B.LIB.SC. - KURUKSHETRA '75; CERTIFICATE IN COBOL PROGRAMMING - I.I.T., DELHI '80; CERTIFICATE IN FORTRAN PROGRAMMING - DELHI COLLEGE OF ENGINEERING, DELHI '81.

SPECIALIZATIONS : DOCUMENTATION; COMPILATION OF BIBLIOGRAPHIES.

EXPERIENCE : LIBRARY ASSISTANT, PANJAB UNIVERSITY, 1975-76; LIBRARY ASSISTANT, PUNJABI UNIVERSITY, 1976-78; SENIOR DOCUMENTATION ASSISTANT AND SCIENTIST B, N.P.L., 1978-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DOCUMENTATION AND DATA MANAGEMENT.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 12.

710

MRS INDRA TIWARI; (B. DECEMBER 17, 1952),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '70; M.SC. PHYSICS - KANPUR '74.

SPECIALIZATIONS : ELECTRONICS; TECHNOLOGY UTILIZATION.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST B, N.P.L., 1978-90; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER AND UTILISATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY, TECHNO-ECONOMIC SURVEYS AND TECHNOLOGY TRANSFER - 12.

711

SHRI UMESH CHANDRA UPRETI; (B. JULY 1, 1946),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. MATHEMATICS - ALLAHABAD '67; M.SC. PHYSICS - KUMAUN '76.

SPECIALIZATIONS : RADIO SCIENCE; THIN FILMS; STATISTICS; ELECTRONICS; METEOROLOGY.

EXPERIENCE : SCIENTIFIC ASSISTANT, INDIA METEOROLOGICAL DEPARTMENT, DELHI AND AHMEDABAD, 1969-72; ASSISTANT TECHNICAL OPERATOR, S.T.A. AND SCIENTIST B, N.P.L., 1977-88; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN H.F. COMMUNICATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN - 5, TECH. DEV. - 5, PILOT PLANT - 5, OPERATION - 8, MAINTENANCE.

712

SHRI J P VASHISHT; (B. SEPTEMBER 4, 1938),

TECHNICAL OFFICER (C), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRIC - PANJAB UNIVERSITY '57.

SPECIALIZATIONS : SCIENTIFIC GLASS INSTRUMENTATION.

EXPERIENCE : APPRENTIENCE GLASS BLOWER, FINE MECHANIC, CHIEF GLASS BLOWER, TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1960-88; TECHNICAL OFFICER (C), N.P.L. SINCE MARCH, 1988.

PRESENT ACTIVITIES : GLASS BLOWING.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : NPL AWARD, 1973; NRDC AWARD, 1975.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 33.

713

SHRI MOHAN LAL VERMA; (B. SEPTEMBER 15, 1943),

TECHNICAL OFFICER (C), NATIONAL PHYSICS LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRICULATION - DELHI BOARD '61; 3 YEARS TRAINING IN GLASS INSTRUMENTATION - N.P.L., NEW DELHI '81.

SPECIALIZATIONS : GLASS INSTRUMENTATION.

EXPERIENCE : APPRENTICE, GLASS BLOWER, FINE MECHANIC, S.T.A AND TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.P.L., 1961-86; TECHNICAL OFFICER (C), N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : FABRICATION OF SCIENTIFIC GLASS EQUIPMENT AND QUARTZ SILICA.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 20, PRODUCTION - 10.

714

SHRI N S VERMA; (B. JANUARY 2, 1942),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '64; M.SC. MATHEMATICS - MEERUT '71.

SPECIALIZATIONS : MATHEMATICS; CRYSTAL GROWTH.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.P.L., 1962-89; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN THE COATING OF THIN FILMS BY SOL GEL PROCESS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, R&D MGMT. - 10, OPERATION - 3, TESTING - 2, MAINTENANCE - 5.

715

SHRI SURENDRA SINGH VERMA; (B. DECEMBER 11, 1950),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG) MECHANICAL - A.M.U. '72.

SPECIALIZATIONS : MECHANICAL INSPECTION AND TESTING; TOOL ROOM AND GENERAL WORKSHOP SUPERVISION; DESIGN OF MECHANICAL COMPONENTS.

EXPERIENCE : ASSISTANT ENGINEER (MECHANICAL), SADANI IRON & STEEL ROLLING MILL, ALIGARH, 1972-75; ASSISTANT FOREMAN (MECHANICAL), GOVT. OPIUM & ALKALOID WORKS UNDERTAKING, NEEMUCH, M.P, 1976-78; S.S.A. AND SCIENTIST B, N.P.L., 1978-86; SCIENTIST C, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : MECHANICAL INSPECTION; TOOL ROOM OPERATION & SUPERVISION; CRYOGENICS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 6, CRYOGENICS - 1, INSPECTION & TESTING, TOOL ROOM OPERATIONS & DESIGN - 11.

716

SHRI V K VOHRA; (B. APRIL 13, 1945),

SCIENTIST C, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - PANJAB '66; A.M.I.E. ELECTRONICS & COMMUNICATIONS - INSTITUTION OF ENGINEERS (INDIA) '76.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; ELECTRONICS & COMMUNICATION.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., CHANDIGARH, 1968-83; SCIENTIST B, N.P.L., 1983-86; SCIENTIST C, N.P.L. SINCE FEBRAURY, 1986.

PRESENT ACTIVITIES : R & D IN ELECTRONIC INSTRUMENTATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 10, TESTING & FABRICATION - 15.

717

SHRI N K AGGARWAL; (B. SEPTEMBER 3, 1944),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '65.

SPECIALIZATIONS : PLANNING AND LIAISON; DIMENSIONAL METROLOGY.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1966-86; TECHNICAL OFFICER (B), N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : DIMENSIONAL METROLOGY (TESTING & CALIBRATION).

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 20, CALIBRATION - 20, PLANNING - 5.

718

SHRI S D BAHL; (B. FEBRUARY 16, 1942),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MECHANICAL DRAUGHTSMANSHIP - I.T.I., PUSA, NEW DELHI '60.

SPECIALIZATIONS : DRAWING & DESIGN; S&T DATA PREPARATION FOR CALIBRATION SERVICES; XERORADIOGRAPHY & RADIOXEROGRAPHY; INDUSTRIAL LIAISON.

EXPERIENCE : JUNIOR DRAUGHTSMAN, SENIOR DRAUGHTSMAN, J.M.A., S.M.A. AND TECHNICAL OFFICER (A), 1964-87; TECHNICAL OFFICER (B), N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : INDUSTRIAL LIAISON AND CO-ORDINATION OF TESTING & CALIBRATION ACTIVITY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 23, TECH. DEV. - 17, REPROGRAPHY - 17, XERORADIOGRAPHY - 7, S&T DATA PREPARATION - 4, INDUSTRIAL LIAISION - 1.

719

MRS K S BALAKRISHAN; (B. NOVEMBER 13, 1939),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '62; M.SC. PHYSICS - ANNAMALAI '85.

SPECIALIZATIONS : THIN FILMS; PHOTOVOLTAIC SOLAR CELLS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1978-88; TECHNICAL OFFICER (B), N.P.L. SINCE MAY, 1988.

PRESENT ACTIVITIES : BASIC AND APPLIED RESEARCH IN SOLAR CELLS.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, TAMIL.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECHNICAL REPORT - 1, PATENTS TAKEN - 1, PATENTS FILED CURRENTLY - 1.

AWARDS & DISTINCTIONS : NPL MERIT AWARD, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH 10, APPLIED RESEARCH - 16.

720

SHRI K S BARTWAL; (B. MARCH 25, 1952),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - GARHWAL '80; M.SC. - GARHWAL '82.

SPECIALIZATIONS : MATERIALS SCIENCE; CRYSTAL GROWTH AND CHARACTERISATION; X-RAY AND ELECTRON DIFFRACTION.

EXPERIENCE : SCIENTIST B, N.P.L. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : RESEARCH AND DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES.PAPERS - 5, OTHERS (CONFERENCES) - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 7.

721

SHRI S S BHAKRI; (B. NOVEMBER 5, 1939),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '59; B.A. ENGLISH - PANJAB '62; M.A. ENGLISH - TRIBHUVAN, NEPAL '64

SPECIALIZATIONS : ENGLISH LITERATURE; PUBLICATION; PUBLIC RELATIONS & PLANNING.

EXPERIENCE : J.L.A., S.L.A., J.S.A. AND S.T.A., N.P.L., 1961-82; TECHNICAL OFFICER (A), N.P.L., 1987; TECHNICAL OFFICER (B), N.P.L. SINCE AUGUST, 1987

PRESENT ACTIVITIES : PLANNING AND SURVEYS; EDITING; REPRINTS.

LANGUAGES : PUNJABI, HINDI, SANSKRIT, URDU, ENGLISH.

VISITED : SPAIN, SWITZERLAND.

PUBLICATIONS & PATENTS : BOOKS & PUBLICATIONS - 12, SCIENTIFIC ESSAYS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 17, TEACHING - 6, PLANNING - 13, EDITING - 25.

722

SHRI R C BHATHEJA; (B. AUGUST 10, 1936),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : F.SC. - PANJAB '59; ELECTRICIAN'S COURSE (2 YEARS) - I.T.I., PUSA, NEW DELHI '61; ELECTICAL SUPERVISOR'S COURSE - PANJAB '62.

SPECIALIZATIONS : VACUUM TECHNOLOGY; XERORADIOGRAPHY.

EXPERIENCE : APPRENTICE, J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1958-88; TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D IN XERORADIOGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, PATENTS TAKEN - 2, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R&D, DESIGN AND MAINTENANCE - 30.

723

SHRI JOSES CHANDRA BISWAS; (B. JANUARY 1, 1967),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.TECH. ELECTRICAL ENGINEERING - I.I.T., KHARAGPUR '91.

SPECIALIZATIONS : ENERGY ENGINEERING.

EXPERIENCE : SCIENTIST B, N.P.L. SINCE APRIL, 1992.

PRESENT ACTIVITIES : TESTING & CALIBRATION IN THE FIELD OF ELECTRICAL POWER & ENERGY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

724

SHRI DHARAM CHAND; (B. SEPTEMBER 8, 1937),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DRAUGHTSMANSHIP (MECHANICAL) - I.T.I., ROHTAK '56.

SPECIALIZATIONS : DRAWING & DESIGN.

EXPERIENCE : JR. DRAFTSMAN, SR. DRAFTSMAN, SR. TECH. ASSISTANT AND TECHNICAL OFFICER (A), N.P.L., 1958-88; TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : DESIGN.

LANGUAGES : PUNJABI, HINDI, ENGLISH, URDU.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORT - 1, ARTICLES - 1, POPULAR SCIENCE BOOKS - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 35, TEACHING - 13.

725

SHRI SUBHASH CHANDRA; (B. JANUARY 15, 1946),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '68.

SPECIALIZATIONS : ULTRASONIC STANDARDS; FERRITES.

EXPERIENCE : J.L.A., J.S.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1969-87; TECHNICAL OFFICER (B), N.P.L. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : RESEARCH IN ULTRASONIC STANDARDS.

LANGUAGES : HINDI, ENGLISH.

VISITED : POLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, PILOT PLANT - 12.

726

SHRI M K CHIBBER; (B. DECEMBER 5, 1947),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.A. - DELHI '70; DIPLOMA IN MECHANICAL ENGINEERING - M.S. UNIVERSITY OF BARODA '75.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : TECHNICIAN GRADE-1, CENTRAL WORKSHOP, ONGC, BARODA, 1970-76; MECHANICAL ENGINEER, M/S MODERN STEEL & AUTO INDUSTRY, 1976; PRODUCTION ENGINEER, M/S ORIENTAL MFG. & MKT. CO., DELHI, 1976-77; S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1977-87; TECHNICAL OFFICER (B), N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : WORKSHOP TECHNOLOGY.

LANGUAGES : HINDI, PUNJABI, GUJARATI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 8, PILOT PLANT - 2, QLTY CONTROL - 3, MAINTENANCE - 4, PRODUCTION - 3.

727

DR R N CHOWDHARY; (B. APRIL 18, 1951),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

728

SHRI SANJAY RANGNATE DHAKATE; (B. AUGUST 24, 1968),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - NAGPUR '91; B.ED. - NAGPUR '92.

SPECIALIZATIONS : COMMUNICATION ELECTRONICS; SPECTROSCOPY.

EXPERIENCE : SCIENTIST B, N.P.L. SINCE JUNE, 1992.

PRESENT ACTIVITIES : C - C COMPOSITES DEVELOPMENTS.

LANGUAGES : MARATHI, HINDI, ENGLISH.

729

SHRI P K GARG; (B. APRIL 10, 1955),

ASSISTANT EXECUTIVE ENGINEER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

730

SHRI H P GUPTA; (B. MAY 3, 1941),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC. - MAGADH '62; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - DELHI '71, A.I.C. - CALCUTTA '89.

SPECIALIZATIONS : PREPARATION OF POLYCRYSTALLINE SILICON.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1965-85; TECHNICAL OFFICER (B), N.P.L. SINCE DECEMBER, 1985.

PRESENT ACTIVITIES : SYNTHESIS AND CHARACTERIZATION OF ORGANO METALLIC COMPOUNDS AND ITS CHEMICAL VAPOUR DEPOSITION FOR MAKING SUPER CONDUCTING FILMS.

LANGUAGES : BENGALI, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3, PATENTS FILED - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF A HIGH PURITY POLYCRYSTALLINE SILICON, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, PILOT PLANT - 16, TESTING - 6, PRODUCTION - 16, TECHNOLOGY TRANSFER - 20.

731

SHRI G S HANS; (B. MARCH 2, 1936),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRIC - ALLAHABAD '54.

SPECIALIZATIONS : GLASS BLOWING; GLASS INSTRUMENTATION.

EXPERIENCE : APPRENTICE, GLASS BLOWER, FINE MECHANIC AND CHIEF GLASS BLOWER AND TECHNICAL OFFICER (A), N.P.L., 1959-88; TECHNICAL OFFICER (B), N.P.L. SINCE MARCH, 1988.

PRESENT ACTIVITIES : FABRICATION OF GLASS APPARATUS.

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEVELOPMENT AND PRODUCTION - 33. APPLIED RESEARCH - 1,

732

MRS MEENA JAIN; (B. SEPTEMBER 17, 1960),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '80; M.SC. PHYSICS - DELHI '82; M.PHIL. COMPUTER SCIENCE - DELHI '84.

SPECIALIZATIONS : COMPUTER SCIENCE.

EXPERIENCE : LECTURER (PART-TIME), DESHBANDHU COLLEGE, DELHI, 1984-85; LECTURER MIRANDA HOUSE, DELHI, 1985-86; SCIENTIST B, N.P.L. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : COMPUTER PROGRAMMING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, COMPUTER SCIENCE - 1.

733

DR B JAYARAM; (B. MAY 11, 1955),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '74; M.SC. SOLID STATE PHYSICS - ANDHRA '76; PH.D. SOLID STATE PHYSICS - I.I.T., MADRAS '83.

SPECIALIZATIONS : SOLID STATE PHYSICS; SUPERCONDUCTIVITY OF MIXED METAL OXIDES; ELECTRON PARAMAGNETIC RESONANCE.

EXPERIENCE : LECTURER, S.V.H. COLLEGE OF ENGINEERING, MACHILIPATNAM, A.P., 1981-83; SCIENTIST B, N.P.L. SINCE MARCH, 1983.

PRESENT ACTIVITIES : RESEARCH IN SUPERRCONDUCTIVITY OF MIXED METAL OXIDES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 21.

AWARDS & DISTINCTIONS : CSIR YOUNG SCIENTIST AWARD, 1987.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, TEACHING - 2.

734

SHRI A K KANJILAL; (B. JANUARY 10, 1941),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '64.

SPECIALIZATIONS : FABRICATION AND TESTING OF OPTICAL COMPONENTS.

EXPERIENCE : S.L.A., N.M.L., JAMSHEDPUR, 1964-72; J.S.A., S.S.A. AND TECHNICAL OFFICER (A), N.P.L., 1972-87; (ALSO ON DEPUTATION TO N.I.L., CALCUTTA, 1972; VISITED NATIONAL MEASUREMENT LABORATORY, SYDNEY, AUSTRALIA TO LEARN TECHNIQUES OF FABRICATING PRECISION OPTICAL COMPONENTS, 1979); TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : FABRICATING AND TESTING OF OPTICAL COMPONENTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF IODINE ABSORPTION STABILISED HE-NE LASER, 1978; NPL AWARD FOR DETECTION OF HOT JOURNAL BOX, 1981-82.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, DESIGN - 18, TECH DEV. - 18.

735

DR JAYANTA KAR; (B. SEPTEMBER 1, 1956),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) PHYSICS - DELHI '76; M.SC. PHYSICS - DELHI '78; M.PHIL. PHYSICS - DELHI '79; PH.D. PHYSICS - DELHI '83..

SPECIALIZATIONS : ASTROPHYSICS; PLANETARY ATMOSPHERES.

EXPERIENCE : SILVER JUBILEE FELLOW, U.P. STATE OBSERVATORY, NAINITAL, 1982-83; RESEARCH ASSOCIATE, N.P.L., 1983-87; SCIENTIST B, N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN PLANETARY ATMOSPHERES.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, POPULAR SCIENCE ARTICLES - SOME.

AWARDS & DISTINCTIONS : CSIR YOUNG SCIENTIST AWARD, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, COMPUTER PROGRAMMING - 10.

736

SHRI M KARFA; (B. JANUARY 2, 1945),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - BURDWAN '67; M.SC. PHYSICS - BURDWAN '69.

SPECIALIZATIONS : ELECTRONICS; RADIO PHYSICS.

EXPERIENCE : COMPUTER-CUM-INVESTIGATOR, PLANNING AND EVALUATION DEPARTMENT, CALCUTTA, 1973-74; S.S.A. AND SCIENTIST A, N.P.L., 1974-82; SCIENTIST B, N.P.L. SINCE FEBRUARY, 1982.

PRESENT ACTIVITIES : TESTING AND CALIBRATION IN LENGTH METROLOGY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, PLANNING - 4, TESTING - 8.

737

MRS ASHA RANI KAUSHIK; (B. SEPTEMBER 1, 1944),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS - WOMEN'S POLYTECHNIC, CHANDIGARH '70.

SPECIALIZATIONS : ELECTRONICS; ELECTRICAL AND ELECTRONIC STANDARDS.

EXPERIENCE : J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1970-89; TECHNICAL OFFICER (B), N.P.L. SINCE MARCH, 1989.

PRESENT ACTIVITIES : CALIBRATION AND TESTING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT AND ESTABLISHMENT OF NATIONAL STANDARDS FOR ELECTRICAL AND ELECTRONIC MEASUREMENTS.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV - 6, TESTING - 10

738

SHRI RAVI KHANNA; (B. APRIL 19, 1955),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN INSTRUMENTATION - I.S.T.C., CHANDIGARH '75.

SPECIALIZATIONS : INSTRUMENTATION.

EXPERIENCE : J.T.A., N.C.L., POONA, 1976; S.T.A., R.R.L., JAMMU, 1976-81; TECHNICAL OFFICER (A), N.P.L., 1981-86; (ALSO TRAINING IN INSTRUMENTATION FOR CHEMICAL ANALYSIS, U.K., 1982-83). TECHNICAL OFFICER (B), N.P.L. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : REPAIR AND MAINTENANCE.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR AND MAINTENANCE - 15.

739

SHRI B S KHURANA; (B. MARCH 3, 1941),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '62.

SPECIALIZATIONS : HIGH TC SUPERCONDUCTING MATERIALS.

EXPERIENCE : J.L.A., I.I.T., DELHI, 1962-65; J.L.A., S.L.A., J.S.A., S.S.A. AND TECHNICAL OFFICER (A), N.P.L., 1965-86; TECHNICAL OFFICER (B), N.P.L. SINCE JULY, 1986.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 1, PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : RES. - 22.

740

SHRI KEWAL KRISHAN; (B. JANUARY 15, 1940),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTMANSHIP - DELHI '58; CERTIFICATE IN COMMERCIAL ART - DELHI '63.

SPECIALIZATIONS : DESIGN OF SCIENTIFIC EQUIPMENTS; MECHANICAL DRAWING.

EXPERIENCE : JUNIOR DRAFTSMAN, SENIOR DRAFTSMAN, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1959-88; TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : DESIGNING OF SCIENTIFIC APPARATUS.

LANGUAGES : ENGLISH, URDU, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 32, TEACHING - 10

741

SHRI K V KRISHNAMURTHY; (B. JANUARY 12, 1935),

ASSISTANT EXECUTIVE ENGINEER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - MYSORE '51.

SPECIALIZATIONS : CIVIL CONSTRUCTION, MAINTENANCE AND ERECTION.

EXPERIENCE : SUPERVISOR, SHRI KRISHNA RAJENDRA TEXTILE MILLS, MYSORE, 1951-52; OVERSEER, MAHARASHTRA ELECTRICITY BOARD, 1952-54; SUPERVISOR, KANDLA PORT PROJECT, MINISTRY OF TRANSPORT, 1954-57; OVERSEER AND ENGINEERING ASSISTANT H.S.L., ROURKELA STEEL PLANT, 1957-62; CIVIL ENGINEER, C.F.R.I., 1962-65; CIVIL ENGINEER, C.S.I.R., 1965-69; CIVIL ENGINEER (A), N.P.L., 1969-81; ASSISTANT EXECUTIVE ENGINEER (B), N.P.L. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : CONSTRUCTION OF STAFF QUARTERS, LABORATORY BUILDINGS, ROADS, PARKS AND PILOT PLANT BUILDINGS.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION, OPERATION, TESTING, QLTY. CONTROL AND MAINTENANCE - (TOTAL : 36 YEARS).

742

SHRI PRAMOD KUMAR MITTAL; (B. SEPTEMBER 17, 1940),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60.

SPECIALIZATIONS : CALIBRATION.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A. AND TECHNICAL OFFICER (A), N.P.L., 1961-86; TECHNICAL OFFICER (B), N.P.L. SINCE JULY, 1986.

PRESENT ACTIVITIES : CALIBRATION OF PRECISION ELECTRICAL & ELECTRONIC MEASURING INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CALIBRATION AND MAINTENANCE - 30.

743

SHRI RAM NARAIN; (B. MAY 15, 1935),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRICULATION - PANJAB '52; ELECTRICIAN'S CERTIFICATE - I.T.I., PUSA, NEW DELHI '60; INTERMEDIATE RADIO SERVICE WORK - LONDON C & G INSTITUTE '56.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : MECHAMIC, SENIOR ELECTRICIAN, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1956-87; (ALSO SECTION OFFICER(SOUND), ASHOKA HOTEL, NEW DELHI, 1970-71); TECHNICAL OFFICER (B), N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT AND MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF GAS LASER, 1973; NPL AWARD FOR DEVELOPMENT OF IODINE ABSORPTION STABILISED HE-NE LASER, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 34, MAINTENANCE - 38.

744

SHRI RAJENDRA PRASAD PANT; (B. OCTOBER 15, 1960),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

745

SHRI PREM PRAKASH; (B. NOVEMBER 23, 1939),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : A.I.C. CHEMISTRY - INSTITUTION OF CHEMISTS '84.

SPECIALIZATIONS : CHEMICAL VAPOUR DEPOSITION OF SiHCL3 FOR H.P. SILICON; GROWTH OF POLYCRYSTALLINE SILICON INGOT; Si3 N4 COATING.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1965-88; TECHNICAL OFFICER (B), N.P.L. SINCE MAY, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF SOLAR GRADE SILICON FOR SOLAR CELL, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 20.

746

SHRI SANJAY RAIZADA; (B. JANUARY 2, 1963),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC. (HONS) PHYSICS - DELHI '83; M.C.A. COMPUTER SCIENCE - DELHI '86.

SPECIALIZATIONS : COMPUTER SCIENCE; INFORMATION SYSTEMS.

EXPERIENCE : PROJECT TRAINEE, B.H.E.L, NEW DELHI, 1985-86; TRAINEE PROGRAMMER ANALYST AND PROGRAMMER ANALYST, KALE CONSULTANTS, BOMBAY AND DELHI, 1986-87; SCIENTIST B, N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : CONSULTANCY AND SYSTEM DEVELOPMENT; COMPUTER CENTRE MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER APPLICATIONS - 5, MANAGEMENT - 1.

747

SHRI MANSHA RAM; (B. JULY 8, 1950),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI

QUALIFICATIONS : B.SC. - MEERUT '70; M.SC. PHYSICS - MEERUT '72; B.ED. - MEERUT '75.

SPECIALIZATIONS : TEMPERATURE STANDARDS; INSTRUMENTATION; TESTING & CALIBRATION COORDINATION; MEASUREMENTS AND STANDARDS.

EXPERIENCE : J.L.A., I.I.P., DEHRADUN, 1976-78; J.T.A., S.T.A. AND SCIENTIST A, N.P.L., 1978-86; SCIENTIST B, N.P.L. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN THERMOCOUPLE THERMOMETRY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 2, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APPLIED RES. - 10, TEACHING - 1.

748

SHRI B K ROY; (B. MAY 6, 1946),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - BURDWAN '66; HINDI PRAVEEN '87.

SPECIALIZATIONS : GAS LASERS.

EXPERIENCE : TECHNICAL SUPERVISOR(III), PROOF & EXPT. ESTABLISHMENT, MINISTRY OF DEFENCE, BALASORE, ORISSA, 1967-72; J.S.A., S.S.A. AND TECHNICAL OFFICER (A), N.P.L., 1972-87; TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : FABRICAITON OF HE-NE LASER, COATING OF LASER MIRRORS AND MAINTENANCE OF HIGH VACUUM PLANTS.

LANGUAGES : BENGALI, HINDI, ORIYA, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 4, PATENTS - 1.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT OF GAS LASER, 1973; NPL AWARD FOR DEVELOPMENT OF IODINE STABILISED HE-NE LASER, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 19, TESTING - 5, MAINTENANCE - 5, PRODUCTION - 19.

749

SHRI D S SACHDEVA; (B. MARCH 5, 1939),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS(INDIA) '83.

SPECIALIZATIONS : ELECTRONICS & TELECOMMUNICATION.

EXPERIENCE : RADIO MECHANIC, SENIOR ELECTRICIAN. J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1961-87; TECHNICAL OFFICER (B), N.P.L. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : R & D ON ATA RECEIVERS AND TC.XO.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 22.

750

SHRI SATYA BRATA SAMANTA; (B. SEPTEMBER 2, 1951),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - CALCUTTA '70; A.I.C. - CALCUTTA '90.

SPECIALIZATIONS : SUPERCONDUCTIVITY.

EXPERIENCE : J.S.A., S.S.A. AND TECHNICAL OFFICER (A), N.P.L., 1972-87; TECHNICAL OFFICER (B), N.P.L. SINCE JUNE, 1987.

PRESENT ACTIVITIES : R & D IN HIGH TEMPERATURE SUPERCONDUCTORS AND SCANNING TUNNELING MICROSCOPY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

AWARDS & DISTINCTIONS : NPL AWARD ON STUDY OF SUPERCONDUCTING MATERIALS AND DEVELOPMENT OF SUPERCONDUCTING MAGNETIC SYSTEM.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, TESTING - 15.

751

SHRI S K SHARDA; (B. JANUARY 14, 1942),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '64.

SPECIALIZATIONS : FERRITE MATERIALS AND COMPONENTS; TECHNICAL CERAMICS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1965-86; TECHNICAL OFFICER (B), N.P.L. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D IN TECHNICAL CERAMICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 5, PATENTS TAKEN - 1, PATENTS FILED - 2, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION -1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23, PILOT PLANT - 10, TESTING - 4, PRODUCTION - 10.

752

DR R K SHARMA; (B. FEBRUARY 5, 1949),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) CHEMISTRY - DELHI '69; M.SC. CHEMISTRY - DELHI '71; PH.D. ORGANOMETALLIC CHEMISTRY - DELHI '77

SPECIALIZATIONS : ORGANOMETALLIC CHEMISTRY; SYNTHETIC INORGANIC CHEMISTRY; SYNTHETIC ORGANIC CHEMISTRY; THIN FILM METAL OXIDE COATINGS.

EXPERIENCE : POOL OFFICER AND RESEARCH ASSOCIATE, N.P.L., 1980-86; SCIENTIST B, N.P.L. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : R & D IN THIN FILM METAL OXIDE COATINGS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 42, TECH. REPORTS - 3, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 11.

753

SHRI SHAM LAL SHARMA; (B. OCTOBER 15, 1943),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : COMPETENCY CLASS II WIREMAN LICENCE - DELHI ADMN. '62; NATIONAL TRADE CERTIFICATE - DELHI ADMN. '66; COMPETENCY CLASS I ELECTRICIAN LICENCE - DELHI ADMN. '66.

EXPERIENCE : APPRENTICE, M/S MAYO ELECTRIC & RADIO HOUSE, NEW DELHI, 1960-62; WIREMAN, M/S SUBHASH ELECTRIC CO., DELHI, 1962-63; ASSISTANT FITTER, C.S.I.R., NEW DELHI, 1963-65; MISTRY, N.P.L., NEW DELHI, 1965-68; ELECTRICIAN, D.D.A., NEW DELHI, 1968-70; ELECTRICIAN, HOTEL CORPORATION OF INDIA, 1970-71; J.M.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1971-88; TECHNICAL OFFICER (B), N.P.L. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : SUPERVISION OF ELECTRICAL JOBS AND THE SUBSTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 4, MAINTENANCE - 25.

754

MRS SHASHI KALA SHASTRI; (B. APRIL 14, 1943),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '63.

SPECIALIZATIONS : COMPUTER PROGRAMMING; IONOSPHERIC FORECASTING.

EXPERIENCE : STATISTICAL ASSISTANT, S.T.A., SCIENTIST A AND TECHNICAL OFFICER (B), N.P.L., 1970-85; TECHNICAL OFFICER (B), N.P.L. SINCE APRIL, 1985.

PRESENT ACTIVITIES : COMPUTER PROGRAMMING; IONOSPHERIC FORECASTING.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, COMPUTER PROCESSING - 15.

755

SHRI GURDIAL SINGH; (B. JULY 25, 1943),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRICULATION - PANJAB '59; CERTIFICATE IN RADIO MECHANICS COURSE - I.T.I., PUSA, NEW DELHI '63.

SPECIALIZATIONS : TIME & FREQUENCY STANDARDS.

EXPERIENCE : SKILLED OPERATOR, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1964-88; TECHNICAL OFFICER (B), N.P.L. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : MAINTENANCE & OPERATION OF ELECTRICAL EQUIPMENT FOR TIME & FREQUENCY SIGNALS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 3, OPERATION - 15, TESTING - 4, MAINTENANCE - 15.

756

SHRI KARNAIL SINGH; (B. OCTOBER 10, 1943),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRICULATION - PANJAB '61; CERTIFICATE OF TRAINING IN MANUFACTURING OF CHEMICAL THERMOMETERS - CENTRAL SMALL INDUSTRIES ORGANISATION, G.O.I. '67; CERTIFICATE OF JUNIOR GLASS BLOWING - HIMACHAL STATE '68; CERTIFICATE OF SENIOR GLASS BLOWING - HIMACHAL STATE '77.

SPECIALIZATIONS : GLASS BLOWING; GLASS INSTRUMENTATION.

EXPERIENCE : S.T.A. AND TECHNICAL OFFICER (A), N.P.L., 1971-87; TECHNICAL OFFICER (B), N.P.L. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : GLASS BLOWING; GLASS INSTRUMENTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : GLASS BLOWING AND GLASS INSTRUMENTATION - 17.

757

SHRI MAHAVIR SINGH; (B. OCTOBER 10, 1943),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL ENGINEERING - SOUTH GUJRAT '88; M.TECH. MECHANICAL ENGINEERING - KURUKSHETRA '90.

SPECIALIZATIONS : MECHANICAL VIBRATION.

EXPERIENCE : MECHANICAL ENGINEER, PRAKASH PICTURE TUBES,NAINITAL, 1988-90; SCIENTIST B, N.M.L., JAMSHEDPUR, 1991-92; SCIENTIST B, N.P.L. SINCE DECEMBER, 1992.

PRESENT ACTIVITIES : R & D IN NOISE & VIBRATION AND ACOUSTICS.

LANGUAGES : HINDI, ENGLISH.

758

SHRI NAIB SINGH; (B. JANUARY 20, 1948),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC..- PANJAB '69; A.M.I.E (ELEC. & COMM.) - INSTITUTION OF ENGINEERING(I), CALCUTTA '77.

SPECIALIZATIONS : PRECISION ELECTRICAL AND ELECTRONIC MEASUREMENTS; MICROWAVES; INSTRUMENTATION; CONTROL SYSTEMS.

EXPERIENCE : J.L.A., S.L.A., TA GR VIII, S.T.A. AND SCIENTIST A, N.P.L., 1972-88; SCIENTIST B, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : ELECTRICAL / ELECTRONICS STANDARDS.

LANGUAGES : ENGLISH, HINDI, PUNJABI, SANSKRIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : NPL AWARD FOR ESTABLISHMENT OF STANDARDS (ELECTRICAL AND ELECTRONICS), 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 10, DESIGN - 12, TESTING - 12, MAINTENANCE - 12, TECHNICAL DEV. - 12.

759

DR RISAL SINGH; (B. NOVEMBER 25, 1946),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '67; M.SC. PHYSICS - MEERUT '69; PH.D. PHYSICS - DELHI '77.

SPECIALIZATIONS : ATMOSPHERIC SCIENCE.

EXPERIENCE : LECTURER, M.M. COLLEGE, MODINAGAR, U.P., 1969-70; J.R.F., S.R.F., POOL OFFICER (CSIR) AND RESEARCH ASSOCIATE, N.P.L., 1970-86; SCIENTIST B, N.P.L. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : RESEARCH IN ATMOSPHERIC SCIENCE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 20, TEACHING - 1.

760

SHRI B SIRCAR; (B. MAY 26, 1938),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60.

SPECIALIZATIONS : ELECTRICAL MEASUREMENTS.

EXPERIENCE : J.L.A., SENIOR ELECTRICIAN, J.M.A., TECHNICAL OPERATOR, AND TECHNICAL OFFICER (A), N.P.L., 1961-85; TECHNICAL OFFICER (B), N.P.L. SINCE JUNE, 1985.

PRESENT ACTIVITIES : PRECISION ELECTRICAL MEASUREMENTS & MAINTENANCE OF NATIONAL STANDARDS OF VOLTAGE & RESISTANCE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3.

AWARDS & DISTINCTIONS : NPL AWARD FOR DEVELOPMENT AND ESTABLISHMENT OF NATIONAL STANDARDS & ECHELON I CALIBRATION, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : ELECTRICAL MEASUREMENTS - 30.

761

SHRI N NARAYANA SWAMI; (B. NOVEMBER 9, 1937),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '58; B.T. - MADRAS '59.

SPECIALIZATIONS : PIEZOELECTRIC AND DIELECTRIC CERAMICS.

EXPERIENCE : SCIENCE TEACHER, DISTRICT BOARD SCHOOL, VEERASIGAMANI, TAMIL NADU, 1959-62; SHIFT FOREMAN, A.T.O., T.O. AND TECHNICAL OFFICER (A), N.P.L., 1962-85; TECHNICAL OFFICER (B), N.P.L. SINCE JUNE, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 2, PATENTS TAKEN - 5, PROCESESS DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 28, PILOT PLANT - 28.

762

SHRI S L THIND; (B. JANUARY 11, 1946),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

763

SHRI T R TOMER; (B. DECEMBER 26, 1936),

TECHNICAL OFFICER (B), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN CIVIL ENGINEERING - MADRAS GOVT. TECHNICAL EXAMINATION '57; NATIONAL CERTIFICATE IN SUPERVISION - N.P.C. '72; DIPLOMA IN PURCHASING & STOCK CONTROL - PUNJABI '73; M.A. ECONOMICS - HIMACHAL PRADESH '74.

SPECIALIZATIONS : ECONOMICS; STATISTICS; LABOUR LAW; PERSONNEL MANAGEMENT; CIVIL ENGINEERING; PURCHASING & STOCK CONTROL.

EXPERIENCE : SUB-OVERSEER, OVERSEER AND TECHNICAL OPERATOR, N.P.L., 1956-81; TECHNICAL OFFICER (B), N.P.L. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : PLANNING AND LIAISON; EXHIBITION AND PUBLICATION.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 30, MAINTENANCE - 30, PLANNING - 1, EDITING - 1, BUDGETING - 20, MONETORING - 20, PURCHASING AND STORE WORK - 14, SECURITY - 5, CLEARING - 14, CO-ORDINATING - 14.

764

DR(MISS) P L UPADHYAY; (B. SEPTEMBER 16, 1954),

SCIENTIST B, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '74; M.SC. PHYSICS - DELHI '76; PH.D. PHYSICS - OXFORD, U.K. '85.

SPECIALIZATIONS : SUPERCONDUCTIVITY; MATERIALS CHARACTERISATION.

EXPERIENCE : SCIENTIST B, N.P.L. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : R & D IN SUPERCONDUCTIVITY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., W.GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 1.

765

SHRI K L AHUJA; (B. JANUARY 4, 1941),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - GOVT. POLYTECHNIC, JABALPUR '66;

SPECIALIZATIONS : CIVIL ENGINEERING.

EXPERIENCE : TECHNICAL OFFICER (A), N.P.L. SINCE APRIL, 1985.

PRESENT ACTIVITIES : CONSTRUCTION AND MAINTENACE OF BUILDINGS AND ROADS.

LANGUAGES : HINDI, URDU, ENGLISH.

766

SHRI M K BANERJEE; (B. NOVEMBER 6, 1947),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN MECHANICAL DRAFTSMANSHIP - I.T.I., DELHI '66.

SPECIALIZATIONS : MECHANICAL DRAWING AND DESIGN.

EXPERIENCE : TRACER, JR.DRAFTSMAN, SR.DRAFTSMAN AND S.T.A., N.P.L., 1968-87; TECHNCIAL OFFICER (A) N.P.L. SINCE JULY, 1987.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 15.

767

SHRI JAI BHAGWAN; (B. APRIL 8, 1949),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '71.

SPECIALIZATIONS : PHOTOGRAPHY AND METALLOGRAPHY; CALIBRATION AND STANDARDISATION OF LAMPS AND LUMINARIES.

EXPERIENCE : A.T.O., S.T.A., N.P.L., 1975-86; TECHNICAL OFFICER (A), N.P.L. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : CALIBRATION AND STANDARDISATION OF LAMPS AND LUMINARIES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 4, PILOT PLANT - 12.

768

SHRI G S BHAMBRA; (B. MAY 10, 1938),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRIC - PANJAB '54.

SPECIALIZATIONS : MACHINING.

EXPERIENCE : MECHINIST, FINE MECHANIC, SUPER MECHANIC, A.T.O. AND S.T.A., N.P.L., 1959-88; TECHNICAL OFFICER (A), N.P.L. SINCE DECEMBER, 1988.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

769

SHRI RAVI KUMAR CHATWAL; (B. JANUARY 26, 1952),

SCIENTIST A, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '71; GRAD. I.E.T.E. ELECTRONICS & TELECOM - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS '81.

SPECIALIZATIONS : ELECTRONICS AND TELECOMMUNICATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., N.P.L., 1973-88; SCIENTIST A, N.P.L. SINCE FEBURARY, 1988; (ALSO TRAINING ON ULTRA HIGH VACUUM SYSTEM, RUBER, FRANCE).

PRESENT ACTIVITIES : OPERATION, TESTING AND MAINTENANCE OF SOLAR CELLS.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 17.

770

SHRI MOHIT KUMAR DASGUPTA; (B. NOVEMBER 5, 1945),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : FLIGHT MECHANIC (A) COURSE - I.A.F. '66.

SPECIALIZATIONS : AIRCRAFT AND HELICOPTER MAINTENANCE; HYDROSTATIC EXTRUSION; SHEAR SPINNING; HYDRAULICS AND PNEUMATICS(MAINTENANCE).

EXPERIENCE : CORPORAL, I.A.F., 1965-74; SITE SUPERVISOR, I.T.I., 1977-78; TECHNICAL OFFICER (A), N.P.L. SINCE APRIL, 1989.

PRESENT ACTIVITIES : EPR SPECTROSCOPY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PROCESSES DEVELOPED - 1.

771

SHRI J S DHAMA; (B. AUGUST 21, 1938),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : M.A. ECONOMICS - JIWAJI '67; B.LIB. SC. - JIWAJI '69.

SPECIALIZATIONS : LIBRARY SCIENCE.

EXPERIENCE : TECHNICAL OFFICER (A), N.P.L. SINCE FEBRUARY, 1985.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 4, EDITING - 1, DOCUMENTATION - 8, TECHNO- ECONOMIC SURVEYS - 5, ADMINISTRATION - 8.

772

SHRI A P GENA; (B. DECEMBER 8, 1941),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

773

SHRI ANAND KRISHNA GHOSH; (B. JULY 18, 1940),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - BANGALORE '60; B.A. - PANJAB '73; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - DELHI '79.

SPECIALIZATIONS : MAINTENANCE, TESTING AND CALIBRATION OF INSTRUMENTS.

EXPERIENCE : S.N.C.O., AIRFORCE, 1960-75; FOREMAN (INSTRUMENTS), J.K. RAYON KANPUR, 1975; LAB SUPERVISOR, S.T.A., N.P.L., 1975-85; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1985.

PRESENT ACTIVITIES : COMPUTER AIDED CALIBRATION MANAGEMENT.

LANGUAGES : BENGALI, HINDI, ENGLISH. RUSSIAN.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 15, QUALITY CONTROL - 15, MAINTENANCE - 15, CALIBRATION - 15.

774

SHRI HASAN HAIDER; (B. NOVEMBER 30, 1948),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) - A.M.U. ALIGARH '73; B.LIB. SC. - ALIGARH '76.

SPECIALIZATIONS : LIBRARY SCIENCE.

EXPERIENCE : CATALOGUER, J.D.A. AND S.D.A., N.P.L., 1977-88; (ALSO DEPUTY LIBRARIAN, C.R.I, NEW DELHI, 1982-83); TECHNICAL OFFICER (A), N.P.L. SINCE JULY, 1988.

PRESENT ACTIVITIES : LIBRARY SCIENCE.

LANGUAGES : HINDI, URDU, ENGLISH.

775

SHRI ABDUL HAMID; (B. JANUARY 5, 1939),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '76; TRADE CERTIFICATE IN RADIO AND T. V. ENGINEERING - I.T.I., PUSA, NEW DELHI '71; ELECTRICIAN CERTIFICATE - I.T.I., PUSA, NEW DELHI '71; ONE YEAR COMPUTER PROGRAMMING COURSE, FORTRAN IV - COLLEGE OF ENGINEERINGS DELHI '77.

SPECIALIZATIONS : ATMOSPHERIC AND SPACE SCIENCE; COMPUTER PROGRAMMING.

EXPERIENCE : J.L.A., S.L.A., A.T.O. AND S.T.A., N.P.L., 1961-86; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1986.

PRESENT ACTIVITIES : WORKING UNDER IONIZATION COMPAIGN OF IMAP-C FOR BALLOON AND ROCKET BORNE ION- CONDUCTIVITY.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

776

SHRI G K KAPOOR; (B. APRIL 12, 1946),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

777

SHRI S S KAPUR; (B. NOVEMBER 5, 1935),

ASSISTANT ENGINEER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA CIVIL ENGINEERING - PUNJAB STATE TECH. BOARD '55.

SPECIALIZATIONS : CIVIL ENGINEERING.

EXPERIENCE : APPRENTICE OPERATOR, SIRSA, 1955-55; SECTION OFFICER, P.W.D. PUNJAB 1955-64; CIVIL OVERSEER, C.S.I.R., 1964-65; S.T.A., N.P.L., 1965-72; ASSTT. ENGINEER (A), N.P.L. SINCE DECEMBER, 1972.

LANGUAGES : PUNJABI, HINDI, ENGLISH, URDU.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 37, MAINTENANCE - 37.

778

SHRI JAGDISH LAL; (B. DECEMBER 7, 1938),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : INTER SCIENCE - U.P.BOARD '58; ELECTRICIAN CERTIFICATE - I.T.I. PUSA, NEW DELHI '62.

SPECIALIZATIONS : ULTRASONIC STANDARDS; FERRITE MEASUREMENTS; ULTRASONIC N D T.

EXPERIENCE : OPERATOR(TR), J.L.A., S.L.A., A.T.O. AND S.T.A., N.P.L., 1964-86; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1986.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES. - 12, PILOT PLANT - 16.

779

MRS RAKSHA MARWAH; (B. AUGUST 18, 1941),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '61; GRAD. I.E.T.E. - DELHI '74; A.I.C. - CALCUTTA '86.

SPECIALIZATIONS : SINGLE CRYSTAL GROWTH OF SILICON; FABRICATION OF COLOURED POLYMER THIN FILMS & VACUUM DEPOSITION TECHNIQUES; ATMOSPHERIC RADIO NOISE STUDIES; SELENIUM PHOTOVOLTAIC CELL FABRICATION.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A., N.P.L., 1964-87; TECHNICAL OFFICER (A), N.P.L. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : STUDY OF FIELD STRENGTH OF ATOMSPHERIC RADIO NOISE

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 20, DESIGN - 2, TESTING - 2, TECHNICAL DEV. - 14.

780

SHRI R L MENDIRATTA; (B. JULY 15, 1942),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - PUNJAB '68; A.I.C. - CALCUTTA '83; DIPLOMA IN RUSSIAN LANGUAGE - J.N.U., DELHI '73.

SPECIALIZATIONS : PRECISION MEASUREMENT OF MICROWAVE COMPONENTS & EQUIPMENT; MAINTENANCE AND DEVELOPMENT OF MICROWAVE STANDARDS; DATA PROCESSING AND COMPILATION.

EXPERIENCE : SCIENCE TEACHER, GOVT. HIGH SCHOOL NANTANA, HARYANA, 1964-65; JR. LAB. ASSISTANT, SR. LAB. ASSISTANT, JR. TECHNICAL ASSISTANT AND SR. TECHNICAL ASSISTANT, N.P.L., 1965-82; TECHNICAL OFFICER (A), N.P.L. SINCE SEPTEMBER, 1982.

PRESENT ACTIVITIES : TESTING, CALIBRATION, MAINTENANCE AND DEVELOPMENT OF MICRO- WAVE STANDARDS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 6.

AWARDS & DISTINCTIONS : NPL AWARD, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 18, TESTING - 18, QUALITY CONTROL - 16, MAINTENANCE - 16, TEACHING - 3.

781

SHRI Y P S NEGI; (B. FEBRUARY 22, 1941),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : ELECTRICIAN CERTIFICATE - I.T.I., PUSA, NEW DELHI '62.

EXPERIENCE : ELECTRICAL SUPERVISOR, PUNJAB, 1964; MECHANIC, SR. ELECTRICIAN, J.M.A., S.T.A., N.P.L., 1964-86; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1986.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

AWARDS & DISTINCTIONS : NPL AWARD FOR CONTRIBUTION IN SUPERCONDUCTIVITY, 1977; A N CHATTERJEE MEMORIAL MEDAL FOR CRYOINSTRUMENTATION, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1977.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 3, TECHNICAL DEV. - 6, QUALITY CONTROL - 3, MAINTENANCE - 12, TECH. TRANSFER - 1, CONSULTANCY - 6.

782

SHRI T R PUSHPANGADAN; (B. APRIL 25, 1939),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MATRIC - KERALA '58.

EXPERIENCE : APPRENTICE, OPERATOR TRINEE, J.L.A., S.L.A., J.T.A. AND S.T.A., 1962-87; TECHNICAL OFFICER (A), N.P.L. SINCE SEPTEMBER, 1987.

LANGUAGES : MALYALAM, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 12, PRODUCTION - 18.

783

SHRI DHARAM BIR SHARMA; (B. FEBRUARY 1, 1946),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN DRAUGHTSMANSHIP (MECHNICAL) - I.T.I. NEW DELHI '65.

SPECIALIZATIONS : DRAWINGS OF ELECTRONIC CIRCUITS; DIAGRAMS AND PCB LAYOUTS.

EXPERIENCE : JR. DRAFTSMAN, SR. DRAFTSMAN, S.T.A., N.P.L., 1965-89; TECHNICAL OFFICER (A), N.P.L. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : DRAWING AND DESIGN.

LANGUAGES : HINDI, ENGLISH.

784

SHRI JAGDISH PRASAD SHARMA; (B. DECEMBER 10, 1936),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

785

SHRI O P SHARMA; (B. SEPTEMBER 3, 1938),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : ELECTRICIAN CERTIFICATE - I.T.I., NEW DELHI '62; CERTIFICATE IN CINEMATOGRAPHY - DELHI ADMN '77.

SPECIALIZATIONS : AUDIOVISUAL EQUIPMENT; CINEMA ARC CARBON EVALUATION.

EXPERIENCE : KHALASI, BEARER, MISTRY, J.L.A., TECHNICIAN, A.T.O. AND S.T.A., N.P.L., 1953-88; TECHNICAL OFFICER (A), N.P.L. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : ACOUSTICS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 1, TESTING - 10, QUALITY CONTROL - 8, MAINTENANCE - 20.

786

SHRI S P SHARMA; (B. DECEMBER 17, 1942),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : MACHINIST TRADE CERTIFICATE - I.T.I., PUSA, NEW DELHI '65; MACHINIST INSTRUCTOR, CENTRAL TRAINING INSTITUTE, DAS NAGAR, HOWRAH '67.

SPECIALIZATIONS : MECHANICAL WORKSHOP.

EXPERIENCE : FINE MECHANIC, A.T.O., S.T.A., N.P.L., 1973-86; TECHNICAL OFFICER (A), N.P.L. SINCE DECEMBER, 1986.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - CALIBRATION.

787

SHRI VISHNU DATT SHARMA; (B. AUGUST 8, 1935),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.A. MATHEMATICS - MEERUT '75: M.A. HINDI - MEERUT '80.

SPECIALIZATIONS : TECHNICAL WRITING AND EDITING IN HINDI; PHOTOGRAPHY; DIMENSIONAL METROLOGY

EXPERIENCE : J.L.A., J.T.A., AND S.T.A., N.P.L., 1958-85: TECHNICAL OFFICER (A), N.P.L. SINCE DECEMBER, 1985.

PRESENT ACTIVITIES : TESTING AND CALIBRATION IN DIMENSIONAL METROLOGY.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1. SCIENTIFIC BOOKS - 5, ARTICLES - 25, POPULAR SCIENCE BOOKS - 6 (HINDI), MONOGRAPHS - 2, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : G B PANT AWARD FOR WRITING HINDI SCIENTIFIC BOOK ON POLICE ANVESHAN PHOTOGRAPHY, MINISTRY OF HOME AFFAIRS, 1984; HONOURED FOR HINDI SCIENTIFIC WRITINGS, VIGYAN PARISHAD, ALLAHABAD UNIVERSITY, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 29, TESTING - 15, MAINTENANCE - 7, PLANNING - 5, EDITING - 23, REPROGRAPHY - 7, TECHNICAL WRITING IN HINDI - 35.

788

SHRI RAJIV SIKAND; (B. JULY 25, 1955),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - C.S.I.O., CHANDIGARH '76.

SPECIALIZATIONS : COLD FORGING; HOT EXTRUSION OF FERROUS & NONFERROUS METALS.

EXPERIENCE : SUPERVISOR M/S THE ORIENTIAL SCIENCE APPARATUS WORKSHOPS, AMBALA CANTT, 1976-78; SUPERVISOR M/S USHA TELEHOIST, FARIDABAD, 1978-80; S.T.A. N.P.L., 1980-85; TECHNICAL OFFICER (A), N.P.L. SINCE APRIL, 1985; (ALSO HIGHER TRAINING IN COLD FORGING, UNIVERSITY OF BIRMINGHAM. U.K., 1986.

PRESENT ACTIVITIES : SECONDARY PROCESSING OF METAL MATRIX COMPOSITES AND ALUMINIUM LITHIUM ALLOYS BY HOT EXTRUSION AND WARM FORGING TECHNIQUES.

LANGUAGES : PUNJABI. HINDI. ENGLISH.

VISITED : U.K.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 7, PILOT PLANT - 7, OPERATION - 10, MAINTENANCE - 10, PRODUCTION - 2.

789

SHRI DIDAR SINGH; (B. JANUARY 10, 1940),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN WIRING (APPRENTIENCE) - DELHI STATE '60; ELECTRICIAN CERTIFICATE - I.T.I., PUSA, NEW DELHI '64.

EXPERIENCE : FINE MECHANIC, C.S.I.R., 1963-66; SR. ELECTRICIAN, J.T.A. AND S.T.A., N.P.L., 1966-86; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1986.

PRESENT ACTIVITIES : MAINTENANCE.

LANGUAGES : HINDI, ENLGISH, PUNAJBI.

790

SHRI H B SINGH; (B. JULY 19, 1940),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DRAFTSMAN CERTIFICATE (MECHANICAL) - I.T.I., NEW DELHI '62.

SPECIALIZATIONS : METALLOGRAPHY; DRAWING & DESIGN OF METAL FORMING EQUIPMENT; HEAT TREATMENT OF FERROUS AND NONFERROUS ALLOYS.

EXPERIENCE : JR. DRAFTSMAN, SR. DRAFTSMAN, A.T.O. AND S.T.A., N.P.L., 1965-88; TECHNICAL OFFICER (A), N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : METALLOGRAPHY AND HEAT TREATMENT.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 20, TECHNICAL DEV. - 10, PILOT - PLANT - 3, QUALITY CONTROL - 2, PLANNING - 2.

791

SHRI JASWANT SINGH; (B. JANUARY 2, 1940),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DRAUGHTSMANSHIP - I.T.I. ALLAHABAD '61; B.A. - MEERUT '78; DIPLOMA MECH. ENGG. - MEERUT '84.

SPECIALIZATIONS : MAINTENANCE AND OPERATION OF 500T PRESS; TOOLS DESIGN FOR HOT EXTRUSION & COLD FORGING; DIE DESIGN FOR NONFERROUS MATERIALS.

EXPERIENCE : DRAUGHTSMAN, AIRFORCE HINDAN, GHAZIABAD, 1964-78; A.T.O. AND S.T.A., N.P.L., 1978-88; TECHNICAL OFFICER (A) N.P.L. SINCE NOVEMBER, 1988.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 9, MAINTENANCE - 4, MECH. DRAWINGS - 16.

792

SHRI ANIL KUMAR SURI; (B. JULY 13, 1954),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - INDO-SWISS TRAINING CENTRE, (C.S.I.O.) '74; POST DIPLOMA IN INDUSTRIAL ELECTRONICS - INDO-SWISS TRAINING CENTRE, (C.S.I.O.) '75.

SPECIALIZATIONS : INSTRUMENTATION.

EXPERIENCE : TECHNICAL OFFICER (A), N.P.L. SINCE APRIL, 1988.

PRESENT ACTIVITIES : AUTOMATION OF ATA TRANSMISSION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 4.

AWARDS & DISTINCTIONS : NPL AWARD FOR UPDATING T & F STANDARDS, 1979.

793

SHRI RAM SWARUP; (B. FEBRUARY 16, 1946),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN ENGG DRAWING - I.T.I., PUSA '69.

SPECIALIZATIONS : MACHINE SHOP MILLING.

EXPERIENCE : MISTRY, FINE MECHANIC, A.T.O. AND S.T.A. N.P.L., 1971-87; TECHNICAL OFFICER, (A), N.P.L. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 22.

794

SHRI R S TANWAR; (B. NOVEMBER 15, 1952),

SCIENTIST A, NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '72, M.SC. - MEERUT '75; POST DIPLOMA IN MICROWAVE - BOARD OF TECHNICAL EDUCATION, DELHI '78.

SPECIALIZATIONS : ELECTRONICS; SOLAR RADIATION MEASUREMENTS; OZONE DEPLETION STUDIES; ATMOSPHERIC PHYSICS.

EXPERIENCE : LABORATORY ASSISTANT, K. S. INTER COLLEGE, MUZAFFARANAGAR, 1974; LABORATORY ASSISTANT, A.I.I.M.S., NEW DELHI, 1977; SR LABORATORY ASSISTANT, N.P.L., 1979-88; SCIENTIST A, N.P.L. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SOLAR RADIATION INTENSITY MEASUREMENTS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES.PAPERS - 4, TECH. REPORTS - 5.

795

MRS SWARAN VARMA; (B. APRIL 18, 1938),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '57.

SPECIALIZATIONS : TESTING & CALIBRATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., N.P.L., 1959-86; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1986.

PRESENT ACTIVITIES : TESTING & CALIBRATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

796

SHRI S C VERMA; (B. MAY 30, 1936),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : INTER SCIENCE - ALLAHABAD BOARD '58.

EXPERIENCE : J.L.A., S.L.A., A.T.O. AND S.T.A., N.P.L., 1962-87; TECHNICAL OFFICER (A), N.P.L. SINCE MAY, 1987.

LANGUAGES : HINDI, ENGLISH.

797

SHRI V S YADAV; (B. MARCH 12, 1942),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : HR.SEC - C.B.S.E '66; I.T.I. INST.MECH - PUSA, NEW DELHI '68; R.M.G.D-III B.S.F - HOME MINISTRY '71; R.M.G.D-III B.S.F - HOME MINISTRY '75.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : A.T.O. AND S.T.A., N.P.L., 1979-89; TECHNICAL OFFICER (A), N.P.L. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : DOCUMANTATION, DESIGN & TESTING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TESTING, DOCUMENTATION.

798

SHRI VISHRAM SINGH YADAV; (B. JULY 1, 1947),

TECHNICAL OFFICER (A), NATIONAL PHYSICAL LABORATORY, NEW DELHI.

QUALIFICATIONS : I.T.I. INSTRUMENT MECHANIC - PUSA, NEW DELHI '68; RADIO MECHANIC GR III - B.S.F. SIGNAL TRAINING SCHOOL, DELHI '71; RADIO MECHANICS GRADE II - B.S.F. SIGNAL TRAINING SCHOOL, DELHI '75.

SPECIALIZATIONS : ROCKET, BALLOON AND SATELLITE BORNE PAYLOADS.

EXPERIENCE : A.T.O. AND S.T.A., N.P.L., 1979-89;

PRESENT ACTIVITIES : FABRICATION & TESTING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 21, TECHNICAL DEV. - 21, MAINTENANACE - 21.

CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

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DR RAJENDRA NARAYAN BISWAS; (B. JANUARY 18, 1939),

DIRECTOR, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC.(TECH.) RADIOPHYSICS & ELECTRONICS - CALCUTTA '60; PH.D. ELECTRICAL ENGINEERING - CALIFORNIA, U.S.A. '66.

SPECIALIZATIONS : ELECTRONIC CIRCUITS; ELECTRONIC INSTRUMENTATION; MICROPROCESSOR ARCHITECTURE; MICROCOMPUTER SYSTEMS

EXPERIENCE : ENGINEER, INDIAN STATISTICAL INSTITUTE, CALCUTTA, 1961-63; ENGINEER, RADIO CORPORATION OF AMERICA, NEW JERSEY, U.S.A., 1966-67; ASSISTANT PROFESSOR, PROFESSOR AND HEAD OF THE DEPARTMENT OF ELECTRICAL ENGINEERING, IIT, KANPUR, 1967-93; DIRECTOR, CEERI SINCE SEPTEMBER, 1993.

PRESENT ACTIVITIES : R & D IN ELECTRONIC CIRCUITS, ELECTRONIC INSTRUMENTATION, MICROPROCESSOR ARCHITECTURE AND MICROCOMPUTER SYSTEMS.

VISITED : U.S.A.

PUBLICATIONS & PATENTS :PROCESSES DEVELOPED - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING-27, R&D MGMT - 27.

800

DR P E SANKARANARAYANAN; (B. DECEMBER 7, 1937),

SCIENTIST G, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - MADRAS '56; M.A. PHYSICS - MADRAS '58, DIPLOMA IN RADIO ENGINEERING - MADRAS '60; GRAD. I.E.T.E. ELECTRONICS - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '64; GRAD. I.E. ELECTRICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '65; DIPLOMA IN GERMAN - GOETHE INSTITUTE, BANGALORE '65; D.P.I.I. PROCESS CONTROL AND INDUSTRIAL ELECTRONICS - PHILIPS INTERNATIONAL INSTITUTE OF TECHNOLOGICAL STUDIES, EINDHOVEN, HOLLAND '69; PH.D. PHYSICS (ELECTRONICS INSTRUMENTATION) - BOMBAY '77.

SPECIALIZATIONS : MEASUREMENT ENGINEERING; TRANSDUCER/SENSOR TECHNOLOGY, ANALOG AND DIGITAL ELECTRONICS; MICROPROCESSOR BASED PROCESS CONTROL INSTRUMENTATION; INDUSTRIAL ELECTRONICS.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST B AND SCIENTIST C, NAL, BANGALORE, 1961-72; (ALSO ADVANCED TRAINING IN DIGITAL TELEMETRING SYSTEMS FOR AERO SPACE APPLICATIONS, INDUSTRIAL ELECTRONICS AND PROCESS CONTROL INSTRUMENTATION, HOLLAND, 1967-69); SCIENTIST C AND SCIENTIST EI, NIO, GOA, 1972-78; (ALSO ADVANCED TRAINING IN THE DEVELOPMENT OF OCEANOGRAPHY INSTRUMENTATION SYSTEM, CANADA, 1975); SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, CEERI, 1978-90; SCIENTIST G, CEERI CENTRE, MADRAS SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D AND RESEARCH MANAGEMENT IN PROCESS CONTROL INSTRUMENTATION, INDUSTRIAL ELECTRONICS AND ALLIED CONTROL SYSTEMS.

LANGUAGES : TAMIL, HINDI, KANNADA, TELUGU, ENGLISH, GERMAN.

VISITED : HOLLAND, CANADA, U.S.A., GERMANY, SWEDEN, AUSTRALIA.

PUBLICATIONS & PATENTS : RES.PAPERS - 105, TECH.REPORTS - 18, PATENTS TAKEN - 5, PROCESSES DEVELOPED - 23, PROCESSES UNDER UTILISATION - 15.

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD AWARD FOR BONDED STRAIN GAUGE TYPE PRESSURE TRANSDUCER, 1968; INVENTIONS PROMOTION BOARD AWARD FOR LOAD CELL AND INDICATOR, 1968; RESEARCH PAPER AWARD ON MEASUREMENT OF GAMMA-RAY ATTENUATION, BANGALORE UNIVERSITY, 1975; INVENTIONS PROMOTION BOARD AWARD FOR DEVELOPMENT OF A NEW ELECTRONIC NON- DESTRUCTIVE VACUUM MEASURING INSTRUMENT FOR CANNED FOOD PRODUCTS, 1983; FELLOW, IETE (INDIA); FELLOW, INSTITUTION OF ENGINEERS (INDIA); TENTH RAMLAL WADHWA GOLD MEDAL FOR DISTINGUISHED CONTRIBUTION IN ELECTRONICS & TELECOMMUNICATION SCIENCES, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 25, DESIGN - 25, TECH.DEV. - 25, PILOT PLANT - 15, CONSULTANCY - 15, R & D MGMT. - 15, TESTING - 10, QLTY. CONTROL - 15, MAINTENANCE -10, TEACHING -15, PLANNING - 20, TECHNOLOGY TRANSFER - 20, ADMN. - 20, EDITING - 20, DOCUMENTATION - 20, EXTENSION - 10.

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DR S S AGRAWAL; (B. JANUARY 1, 1942),

SCIENTIST F, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. PHYSICS - ALIGARH '65; PH.D. PHYSICS - ALIGARH '70.

SPECIALIZATIONS : SPEECH RECOGNITION AND SYNTHESIS; AUDIOVISUAL APPLICATIONS; COMPUTER PROCESSING; ACOUSTICS.

EXPERIENCE : LECTURER, ALIGARH UNIVERSITY, ALIGARH, 1967-70; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, CEERI, 1971-89; (ALSO WORKED A AS A SPECIALIST IN AUDIO-VISUAL TECHNOLOGY, EAST WEST CENTRE, HONOLULU, USA, 1978-79); SCIENTIST F, CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : R & D IN ELECTRONICS ENGINEERING; DEVELOPMENT OF MAN-MACHINE DEVICES USING VOICE.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH REPORTS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 5, APP. RES. - 20, CONSULTANCY - 3, R & D MGMT. - 15 TEACHING - 3, PLANNING - 15, COMPUTER PROCESSING - 8

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DR S AHMAD; (B. OCTOBER 13, 1943),

SCIENTIST F, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - GORAKHPUR '62; M.SC. (TECH.) RADIO ENGINEERING AND ELECTRONIC PHYSICS - ALLAHABAD '65; PH.D. SEMICONDUCTOR DEVICE PHYSICS - BITS, PILANI '70.

SPECIALIZATIONS : SEMICONDUCTOR DEVICE PHYSICS - COMPUTER SIMULATION OF SEMICONDUCTOR DEVICES; FABRICATION OF MICROWAVE SEMICONDUCTOR DEVICES; MICROWAVE INTEGRATED CIRCUITS AND TESTING OF TRANSIT TIME DEVICES; COMPUTER AIDED MEASUREMENT OF SEMICONDUCTOR DEVICES AND CIRCUITS; METALLISATION FOR VLSI CIRCUITS USING SILICIDES; MILLIMETER WAVE POWER SOURCES.

EXPERIENCE : ASSISTANT LECTURER AND LECTURER, BITS, PILANI, 1969-72; SCIENTIST C, SCIENTIST EI AND SCINTIST EII, CEERI, 1972-87; (ALSO DAAD FELLOW AND ALEXANDER VON HUMBOLDT FELLOW FOR R & D IN MICROWAVE SEMICONDUCTOR DEVICES, GERMANY, 1975-76 AND 1976-77); SCIENTIST F, CEERI SINCE MAY, 1987.

PRESENT ACTIVITIES : R & D IN MICROWAVE SEMICONDUCTOR DEVICES; COMPUTER AIDED MEASUREMENT OF SEMICONDUCTOR DEVICES AND CIRCUITS; HIGH RELIABILITY METALLISATION FOR VERY LARGE SCALE INTEGRATED CIRCUITS USING REFRACTORY SILICIDES; DEVELOPMENT OF MILLIMETER WAVE SOURCES FOR VARIOUS APPLICATIONS.

LANGUAGES : HINDI, URDU, ENGLISH, GERMAN.

VISITED : W. GERMANY, JAPAN, HONGKONG, THAILAND, U.S.A., U.K., SWITZERLAND, NETHERLANDS, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 10, ARTICLES - 30, PAPERS PRESENTED - 15, PROCESSES DEVELOPED - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, APP. RES. - 28, DESIGN - 25, TECH. DEV. - 21, TESTING - 18, R & D MGMT. - 21, TEACHING - 5, ADMN. - 21.

803

SHRI K L JASUJA; (B. JANUARY 2, 1942),

SCIENTIST F, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - PUNJAB '65; M.SC. (TECH.) ELECTRONICS - BITS '71.

SPECIALIZATIONS : SEMICONDUCTOR PHYSICS AND DEVICES.

EXPERIENCE : LECTURER, NATIONAL DEGREE COLLEGE, SIRSA, 1965-66; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, CEERI, 1966-89; (ALSO TRAINING IN C-MOS TECHNOLOGY FOR MANUFACTURE OF LARGE SCALE INTEGRATED CIRCUITS, UK, 1976 AND IN POWER SEMICONDUCTOR DEVICES, WESTINGHOUSE R&D CENTRE, PITTSBURGH, USA, 1981); SCIENTIST F, CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, URDU, ENGLISH, GERMAN.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 4, PATENTS TAKEN - 3, PATENTS FILED - 1, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, DESIGN - 15, TECH. DEV. - 20, TECHNOLOGY TRANSFER - 5.

804

DR K V RAMAKRISHNAN; (B. FEBRUARY 26, 1939),

SCIENTIST F, INCHARGE, CEERI CENTRE, CSIR COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - POONA '59; B.SC. (HONS) PHYSICS - POONA '60; M.SC. PHYSICS - POONA '61; DOCTEUR D' UNIVERSITE. PHYSICS - UNIVERSITE PAUL SABTIER, FRANCE '72.

SPECIALIZATIONS : SIGNAL PROCESSING; ANALOG AND DIGITAL CIRCUITS; AUDIO ENGINEERING; MICROPROCESSOR APPLICATIONS IN COMMUNICATION, SPEECH AND INSTRUMENTATION; ARCHITECTURAL ACOUSTICS DESIGN OF AUDITORIA.

EXPERIENCE : DEMONSTRATOR, FERGUSSON COLLEGE, POONA, 1960-61; LECTURER, AHMEDNAGAR COLLEGE, AHMEDNAGAR, 1961-62; S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, CEERI, 1962-89; (ALSO TRAINING IN DIGITAL COMMUNICATION SIGNAL PROCESSING, FRANCE, 1971-72); SCIENTIST F, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : DEVELOPMENT OF ELECTRONIC CIRCUITS AND SYSTEMS FOR SPEECH PROCESSING AND COMMUNICATION, INCLUDING SPEECH SECRECY SYSTEMS.

LANGUAGES : TAMIL, MARATHI, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, TECH. REPORTS - 10, PATENTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24, DESIGN - 24, TECH. DEV. - 24, PILOT PLANT - 1, CONSULTANCY - 4, R & D MGMT. - 15, TEACHING - 2, PLANNING - 8, TECHNOLOGY TRANSFER - 4, EXTENSION - 2.

805

DR P D VYAS; (B. APRIL 8, 1940),

SCIENTIST F, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '60; B.E. ELECTRONICS - INDIANA INSTITUTE OF TECHNOLOGY, USA '63; M.S. ELECTRONICS - UNIVERSITY OF MISSOURI, USA '65; DOCTEUR D' UNIVERSITE - UNIVERSITE PAUL SABATIER, FRANCE '76.

SPECIALIZATIONS : SOLID STATE DEVICES; SEMICONDUCTOR MATERIALS GROWTH AND CHARACTERISATION.

EXPERIENCE : TELEPHONE ENGINEER, BELL TELEPHONE SYSTEM, USA, 1963-64; RESEARCH ASSISTANT, UNIVERSITY OF MISSOURI, USA, 1964-65; S.R.F., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, CEERI, 1965-89; (ALSO TRAINING IN GALLIUM ARSENIDE TECHNOLOGY FRANCE, 1975-76); SCIENTIST F, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : U.S.A., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 6, PATENTS TAKEN - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, TECH. DEV. - 21.

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SHRI H N BANDOPADHYAY; (B. JULY 13, 1942),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (HONS.) MATHEMATICS - CALCUTTA '62; B.E. ELECTRONICS AND TELECOMMUNICATION - JADAVPUR '67.

SPECIALIZATIONS : MICROWAVE TUBES; MICROWAVE ENGINEERING; VACUUM TECHNIQUES; COMPUTER AIDED DESIGN OF ELECTRON TUBES.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1968-89; (ALSO STUDY OF COMPUTER AIDED DESIGN OF ELECTRON TUBE, UK, 1978); SCIENTIST EII, CEERI SINCE JANUARY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : ARTICLES - 2, PAPERS PRESENTED - 7, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 18, TECH. DEV. - 18, R&D MGMT. - 8.

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DR S K BHATNAGAR; (B. JUNE 15, 1943),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '60; M.SC. PHYSICS - RAJASTHAN '63; PH.D. PHYSICS - JODHPUR '72.

SPECIALIZATIONS : HYBRID MICRO CIRCUITS; SEMICONDUCTOR DEVICES; SEMICONDUCTOR PHYSICS; ELECTRONICS.

EXPERIENCE : J.R.F. AND RESEARCH ASSISTANT, JODHPUR UNIVERSITY, JODHPUR, 1963-65; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1965-88; (ALSO TRAINING IN HYBRID ICS, FRANCE, 1977 & TRAINING IN U.S.A., 1985-86); SCIENTIST EII, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D AND MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE, U.S.A., U.K., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 12, PATENTS TAKEN - 2, PATENTS FILED CURRENTLY - 1, PROCESSES DEVELOPED - 8, PROCESSES UNDER UTILISATION - 6.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1980, 1983, 1987, 1988; BEST PAPER AWARD, I S H M, 1988; NRDC, INDEPENDENCE DAY AWARD, 1990; A N CHATTERJEE MEMORIAL AWARD, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1991; FELLOW, IETE (INDIA), 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 30, DESIGN - 28, TECH. DEV. - 28, CONSULTANCY - 9, R&D MGMT. - 16, QUALITY CONTROL - 16, TEACHING - 2, PLANNING - 16.

808

SHRI B B DIXIT; (B. JANUARY 13, 1943),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - ROORKEE '67; M.E. ELECTRONICS - BITS '73; POST. GRAD. PROJECT MANAGEMENT - PUNJAB '83; PH.D. MATERIALS SCIENCE - BOMBAY '91.

SPECIALIZATIONS : SOLID STATE MATERIALS; SOLID STATE DEVICES; ELECTRONICS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1968-88; (ALSO HIGHER TRAINING IN SILICON SEMICONDUCTOR MATERIALS GROWTH, USA, 1979-80); SCIENTIST EII, CEERI SINCE AUGUST, 1988.

PRESENT ACTIVITIES : R & D MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 8, ARTICLES - 3, PATENTS FILED - 2, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, TECH. DEV. - 15, PRODUCTION - 5, R & D MANAGEMENT - 5.

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SHRI R P GUPTA; (B. SEPTEMBER 7, 1945),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - JODHPUR '67; M.SC. (TECH.) ELECTRONICS - BITS '70; PH.D. PHYSICS - POONA '90.

SPECIALIZATIONS : SILICON DEVICES PHYSICS & TECHNOLOGY; GaAs DEVICE TECHNOLOGY AND PHYSICS; HIGH TC SUPERCONDUTING MATERIALS, FILMS AND DEVICES.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1969-89; (ALSO TRAINING IN ELECTRON MICROSCOPY, JAPAN, 1975 AND IN GALLIUM ARSENIDE TECHNOLOGY, GERMANY, 1977-78 & TRAINING IN GERMANY, 1986); SCIENTIST EII, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : HIGH TEMPERATURE SUPER CONDUCTING DEVICES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : JAPAN, W.GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 10, ARTICLES - 2, BOOK PUBLISHED - 1,

AWARDS & DISTINCTIONS : A N CHATTERJEE MEMORIAL AWARD, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 24, APPLIED RESEARCH - 24, R & D MANAGEMENT - 10, ADMINISTRATION - 10.

810

DR P C JAIN; (B. JULY 1, 1946),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI

QUALIFICATIONS : B.E. ELECTRONICS - BITS '68; M.E. ELECTRONICS - BITS '72; M.S. TELECOMMUNICATION - BELGIUM '77; D.SC. (ENGG.) VIDEO COMPRESSION - BELGIUM '79.

SPECIALIZATIONS : SPEECH/IMAGE SIGNAL PROCESSING/CODING; T V ENGINEERING; ANALOG AND DIGITAL CIRCUITS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1972-91; SCIENTIST EII, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : VLSI CHIP DESIGN OF DIGITAL CTV RECEIVERS.

LANGUAGES : HINDI, ENGLISH, FRENCH, GERMAN.

VISITED : BELGIUM, GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES.PAPERS - 40.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 25 YEARS).

811

SHRI S N JOSHI; (B. OCTOBER 15, 1946),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - ALLAHABAD '64; M.SC. (TECH.) ELECTRONICS AND RADIO ENGINEERING - ALLAHABAD '67.

SPECIALIZATIONS : ELECTRON TUBE DEVICES; MICROWAVE ENGINEERING.

EXPERIENCE : J.R.F., NPL, NEW DELHI, 1967-68; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1968-88; SCIENTIST EII, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN TRAVELLING WAVE TUBES.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : FRANCE, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 25, TECH. DEV. - 25, R&D MGMT. - 8.

812

DR PAWAN KAPUR; (B. DECEMBER 9, 1950),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - CALCUTTA '69; B.TECH. RADIO PHYSICS AND ELECTRONICS - CALCUTTA '72; M.TECH. RADIO PHYSICS AND ELECTRONICS - CALCUTTA '74; PH.D. CONTROL SYSTEMS - CALCUTTA '78.

SPECIALIZATIONS : CONTROL SYSTEMS AND DIGITAL TECHNIQUES; BIOMEDICAL ENGINEERING; ELECTRONIC PROCESS CONTROL INSTRUMENTATION SYSTEMS; MICROPROCESSOR BASED SYSTEM DESIGN; MATHEMATICAL MODELLING; CRYSTALLISATION SIMULATION AND CONTROL; TEA AUTOMATION SYSTEMS.

EXPERIENCE : RESEARCH FELLOW (CSIR), INSTITUTE OF RADIO PHYSICS AND ELECTRONICS, CALCUTTA, 1974-75; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1975-88;(ALSO WORKED AS GUEST SCIENTIST IN MICROPROCESSOR DESIGN, DAAD FELLOWSHIP, GERMANY, 1979-80 & VISITING FELLOW, UNDER COLOMBO PLAN, UNIVERSITY OF QUEENSLAND, AUSTRALIA, 1986); SCIENTIST EII, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRONIC PROCESS CONTROL INSTRUMENTATION FOR INTELLIGENT PROCESSING OF MATERIALS.

LANGUAGES : PUNJABI, HINDI, BENGALI, ENGLISH, GERMAN.

VISITED : W. GERMANY, AUSTRALIA, MAURITIUS, REUNION ISLANDS, BRAZIL, HUNGARY.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. REPORTS - 25, ARTICLES - 5, PATENTS TAKEN - 3, PATENTS FILED - 1, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : FICCI AWARD FOR SUGAR INSTRUMENTATION, 1979; CEERI AWARD FOR BEST PROJECT, 1980; ELCINA AWARD FOR OUTSTANDING R & D CONTRIBUTION, 1986; BEST PAPER AWARD, 1987; K S KRISHNAN MEMORIAL AWARD FOR BEST PRODUCT ORIENTED PAPER, IETE (INDIA), 1989; CSIR TECHNOLOGY SHIELD IN SUGAR INSTRUMENTATION, 1992; G N ACHARYA RUNNING TROPHY FOR COMMERCIALISATION OF MIPMOS, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 12, DESIGN - 2, TECH. DEV. - 5, TESTING - 3, TECHNO-ECONOMIC SURVEYS - 1, TECHNOLOGY TRANSFER - 1, EDITING - 1, COMPUTER PROCESSING - 5.

813

SHRI R S MAHAJAN; (B. JULY 21, 1935),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. (HONS.) TELECOMMUNICATION - JABALPUR '57; M.TECH. INDUSTRIAL ELECTRONICS - I.I.T., BOMBAY '59.

SPECIALIZATIONS : DIGITAL ELECTRONICS; PC BASED ELECTRONIC SYSTEMS; INDUSTRIAL ELECTRONICS; DIGITAL COMMUNICATION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1960-86; (ALSO ADVANCED STUDY AND RESEARCH IN DIGITAL TECHNIQUES, WEST GERMANY, 1965-66); SCIENTIST EII, CEERI SINCE APRIL, 1986.

PRESENT ACTIVITIES : PLANNING AND R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH, GERMAN.

VISITED : WEST GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 12, ARTICLES - 2, PATENTS FILED CURRENTLY - 2, PROCESSES DEVELOPED - 7, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 33, DESIGN - 33, TECH. DEV. - 33, CONSULTANCY - 20, R&D MANAGEMENT - 31, CONSTRUCTION - 20, OPERATION - 30, TESTING - 33, MAINTENANCE - 33, PRODUCTION - 30, PLANNING - 33, TECH. TRANSFER - 20, ADMINISTRATION - 20.

814

SHRI R N NAMBURI; (B. APRIL 24, 1939),

SCIENTIST EII, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE PILANI).

QUALIFICATIONS : B.SC. - ANDHRA '59; M.SC. (TECH.) APPLIED PHYSICS - ANDHRA '63.

SPECIALIZATIONS : SIGNAL PROCESSING; DIGITAL CIRCUITS; MICROPROCESSOR BASED SYSTEMS; DIGITAL COMMUNICATIONS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1964-87; (ALSO ADVANCED TRAINING IN SIGNAL PROCESSING, FRANCE, 1977 & ADVANCED TRAINING IN VOICE COMMUNICATION WITH MACHINES AND SIGNAL PROCESSING, GERMANY; 1986); SCIENTIST EII, CEERI SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : R & D IN DIGITAL SIGNAL PROCESSING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : FRANCE, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 27, DESIGN - 27, R & D MGMT. - 22.

815

SHRI S C SARASWAT; (B. NOVEMBER 16, 1946),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRICAL - BITS '68.

SPECIALIZATIONS : PRODUCT ENGINEERING; CONTROL ENGINEERING; INSTRUMENTATION.

EXPERIENCE : TECHNICAL ASSISTANT AND S.S.A., CEERI, 1968-70; ASSTT. ENGINEER B.H.E.L., BHOPAL, 1970-72; S.T.O., ECIL, HYDERABAD, 1972-76; DY. MANAGER, INSTRUMENTATION LTD., KOTA, 1976-80; PROJECT OFFICER (EI), CEERI, 1980-88; SCIENTIST EII, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT; QUALITY CONTROL; PILOT PLANT TECHNOLOGY TRANSFER.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 3, PROCESSES DEVELOPED - 20, PROCESSES UNDER UTILISATION - 12.

AWARDS & DISTINCTIONS : NRDC AWARD FOR DEVELOPMENT OF PNEUMO-DIGITAL INDICATOR, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, DESIGN - 4, TECH. DEV. - 2, PILOT PLANT - 3, R&D MGMT. - 6, TESTING - 2, QUALITY CONTROL - 1, PRODUCTION - 3, PLANNING - 8, TECHNOLOGY TRANSFER - 5.

816

DR AWATAR SINGH; (B. AUGUST 5, 1942),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - BHU '62; M.SC. PHYSICS - BHU '64; PH.D. PHYSICS - BHU '69.

SPECIALIZATIONS : THIN AND THICK FILM DEVICES; MOSFET FABRICATION & PROCESSING; SAW DEVICES; DRY PROCESSING AND SILICIDES FOR VLSI; INTEGRATED OPTICS.

EXPERIENCE : LECTURER AND S.R.F. (CSIR), BANARAS HINDU UNIVERSITY, VARANASI, 1964-70; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1970-88; (ALSO ADVANCED RESEARCH ON SLICIDES, MEDENA UNIVERSITY, ITALY, 1984; ADVANCED TRAINING IN MOLYBDENUM GATE MOSFET FABRICATION, SOUTHAMPTON UNIVERSITY, UK, 1978); SCIENTIST EII, CEERI SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : R & D ON SLICIDES FOR VLSI CIRCUITS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K., ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 70, TECH. REPORTS - 10, ARTICLES - 10, PATENTS TAKEN - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 17, DESIGN - 17, TECH. DEV. - 17, TEACHING - 5.

817

DR B R SINGH; (B. JULY 2, 1947),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - ALLAHABAD '67; M.SC. PHYSICS - AGRA '69; PH.D. PHYSICS - BHU '74.

SPECIALIZATIONS : THIN FILM TECHNOLOGY; SEMICONDUCTOR TECHNOLOGY; GALLIUM ARSENIDE TECHNOLOGY; SUPERCONDUCTING DEVICES.

EXPERIENCE : S.S.A., CEERI, 1972-74; RESEARCH ENGINEER, IIT, KANPUR, 1974-76; RESEARCH IN SI/SIO2 INTERFACE PREPARATION, TECHNICAL UNIVERSITY, AACHEN, GERMANY, 1976-78; SCIENTIST C AND SCIENTIST EI, CEERI, 1978-88; SCIENTIST EII, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 37, TECH. REPORTS - 6, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 6, TECH. DEV. - 6, R & D MGMT. - 10.

818

SHRI O P WADHAWAN; (B. FEBRUARY 10, 1942),

SCIENTIST EII, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PANJAB '62; M.SC. PHYSICS - PUNJABI '65.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES; INTEGRATED CIRCUITS - PROCESS TECHNOLOGY

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, CEERI, 1965-86; (ALSO TRAINING IN SEMICONDUCTOR DEVICE TECHNOLOGY, FRANCE, 1977); SCIENTIST EII, CEERI SINCE NOVEMBER, 1986; (ALSO UNIDO FELLOW, BELGIUM, 1986)

PRESENT ACTIVITIES : R & D

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH

VISITED : FRANCE, BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 4, PATENTS TAKEN - 2, PROCESSES DEVELOPED - 3. PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10. TECH. DEV. - 16, R & D MGMT. - 5, TECHNOLOGY TRANSFER - 1.

819

SHRI P N ANDHARE; (B. JUNE 6, 1944),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - NAGPUR '68; M.TECH. SOLID STATE DEVICES - I.I.T., BOMBAY '70.

SPECIALIZATIONS : SOLID STATE DEVICES.

EXPERIENCE : S.S.A. AND J.S.O., SOLID STATE PHYSICS LABORATORY, DELHI, 1970-80; SCIENTIST B AND SCIENTIST C CEERI. 1980-90; SCIENTIST EI, CEERI SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : DEVELOPMENT OF SILICON INTEGRATED CIRCUITS.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 4, PROCESSES DEVELOPED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 16, TESTING - 16, QUALITY CONTROL - 16, DOCUMENTATION - 2.

820

DR M N ANSARI; (B. JUNE 17, 1942),

RESIDENT MEDICAL OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.B.B.S. - RAJASTHAN '68.

SPECIALISATIONS : GENERAL MEDICINE.

EXPERIENCE : INTERN, SMS HOSPITAL, JAIPUR, 1968; HOUSE SERGEON, BOMBAY HOSPITAL, BOMBAY, 1968-69; HOUSE PHYSICIAN, M.G.M. HOSPITAL, BOMBAY, 1969-70; ASST. MEDICAL OFFICER, W. RLY., BOMBAY, 1969-70; MEDICAL OFFICER ON SHIP, GOVT. INDIA, 1970; PRAVATE PRACTICE IN LUCKNOW, 1971-73; MEDICAL OFFICER SHIPPING CORP. GOVT. OF INDIA, BOMABY, 1971; PRIVATE PRACTICE, LUCKNOW, 1971-73; RESIDENT MEDICAL OFFICER (EI), CEERI SINCE APRIL, 1973; (ALSO GENERAL DUTY MEDICAL OFFICER. MINISTRY OF HEALTH, IRAN, 1976-81).

LANGUAGES : URDU, HINDI, PERSIAN, ENGLISH.

VISITED : IRAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 25 YEARS).

821

DR P S BHATNAGAR; (B. JANUARY 10, 1946),

SCIENTIST EI. CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE. PILANI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - AGRA '68; M.SC. (TECH.) ELECTRONICS - BITS '70; M.S. TELECOMMUNICATION - CATHOLIC UNIVERSITY OF LOUVAIN, BELGIUM '77; PH.D. PHYSICS - VIKRAM '80.

SPECIALIZATIONS : ANTENNAS AND PROPAGATION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1971-90; (ALSO STUDIES FOR M.S. DEGREE, BELGIUM, 1975-77); SCIENTIST EI, CEERI SINCE MARCH, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : BELGIUM, FRANCE, U.K., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 100, TECH. REPORTS - 15, PATENTS TAKEN - 2, PROCESSES FILED - 7, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : BEST PAPER AWARD, IETE (INDIA), 1981; CERTIFICATE OF MERIT FOR BEST PAPER, INSTITUTION OF ENGINEERS (INDIA), 1984; SIR THOMAS GOLD MEDAL AWARD FOR BEST PAPER, INSTITUTION OF ENGINEERS, INDIA, 1985.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23.

822

SHRI P K CHAKRABORTY; (B. JANUARY 1, 1940),

TECHNICAL OFFICER (EI), (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE CENTRE, NEW DELHI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN RADIO COMMUNICATION & ELECTRICAL ENGINEERING - GOVT. OF INDIA '62.

SPECIALIZATIONS : ELECTROACOUSTIC TRANSDUCERS; ENTERTAINMENT ELECTRONICS AND DESIGN OF AUDITORIA.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1963-91; TECHNICAL OFFICER (EI), CEERI SINCE DECEMBER, 1991.

PRESENT ACTIVITIES : R & D IN ELECTROACOUSTIC TRANSDUCERS; ACOUSTICAL MEASUREMENTS AND COMPUTER AIDED DESIGN OF PRINTED CIRCUIT BOARD; DESIGN OF AUDITORIA.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 5, ARTICLES - 3, PATENTS TAKEN - 3, PROCESSES DEVELOPED - 7, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : MEMBER, IETE (INDIA), 1973; BEST PAPER AWARD, IETE (INDIA), 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 30, DESIGN - 30, PILOT PLANT - 5, CONSULTANCY - 20, TESTING - 30.

823

SHRI A K CHOPRA; (B. JANUARY 1, 1947),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. (HONS.) ELECTRICAL - JABALPUR '69; DIPLOMA IN PROJECT PLANNING, EVALUATION & CONTROL - PUNJAB '80.

SPECIALIZATIONS : ELECTRON EMITTERS; R F INDUCTION HEATERS; MICROWAVE TUBES; VACUUM TECHNOLOGY & PASSIVE VACUUM COMPRESSORS.

EXPERIENCE : GRADUATE APPRENTICE, S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1970-88; SCIENTIST EI, CEERI SINCE APRIL, 1988

PRESENT ACTIVITIES : R & D ON HIGH EMISSION DENSITY TUNGSTEN MATRIX CATHODES FOR POWER MICROWAVE TUBES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION (TRANSFERED TO INDUSTRY) - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH & DEV. - 15, DESIGN & DEV. - 6, BATCH PRODUCTION - 5.

824

DR O P DAGA; (B. JUNE 16, 1946),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - BITS '78; PH.D. PHYSICS - BITS '73.

SPECIALIZATIONS : SEMICONDUCTOR PHYSICS AND TECHNOLOGY; MICROWAVE SEMICONDUCTOR DEVICES; GALLIUM ARSENIDE DEVICES.

EXPERIENCE : SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1973-88; (ALSO TRAINING IN MILLIMETER WAVE DEVICES, GERMANY, 1976-78); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 14, DESIGN - 14, TECHNICAL DEVELOPMENT - 14.

825

SHRI P R DESHMUKH; (B. JANUARY 21, 1945),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - INDORE '65; M.SC. PHYSICS - INDORE '67; M.SC. (TECH.) ELECTRONICS - BITS, PILANI '69.

SPECIALIZATIONS : ELECTRON BEAM TECHNIQUES; SEM AND ELECTRON BEAM LITHOGRAPHY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1970-88; (ALSO HIGHER RESEARCH IN ELECTRON BEAM TECHNIQUES, UK, 1978 & TRAINING IN ELECTRON BEAM LITHOGRAPHY, UNIVERSITY OF CALIFORNIA, U.S.A., 1984); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13, DESIGN - 13, COMPUTER AIDED DESIGN - 13

826

SHRI S K DEY; (B. JANUARY 1, 1936),

TECHNICAL OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN MICROWAVE AND RADAR TECHNOLOGY - A.F. TRAINING CENTRE, BANGALORE '58.

SPECIALIZATIONS : MAINTENANCE, SERVICING AND INSTALLATION OF RADAR EQUIPMENTS; MICROWAVE MEASUREMENTS; MICROWAVE TUBE TECHNOLOGY; VACUUM TECHNOLOGY.

EXPERIENCE : JUNIOR WARRANT OFFICER, I.A.F., 1958-70; S.T.A., SCIENTIST A, SCIENTIST B AND TECHNICAL OFFICER (C), CEERI, 1970-90; TECHNICAL OFFICER (EI), CEERI SINCE FEBRARY, 1990.

PRESENT ACTIVITIES : DEVELOPMENT; TESTING; MAINTENANCE; TECHNOLOGY TRANSFER; QUALITY CONTROL.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, TECH. DEV. - 17, CONSULTANCY - 2, TESTING - 17, QUALITY CONTROL - 17, MAINTENANCE - 17, PRODUCTION - 11, TECHNOLOGY TRANSFER - 3.

827

SHRI J DHANARAJAN; (B. OCTOBER 20, 1938),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MADRAS '60; POSTGRAUDATE DIPLOMA IN SOCIAL SERVICE - MADRAS '62; M.SC. PHYSICS - POONA '88.

SPECIALIZATIONS : SPECIAL PURPOSE EXTRA HIGH TENSION POWER SUPPLIES.

EXPERIENCE : SCIENCE ASSISTANT, NADAR HIGH SCHOOL, COIMBATORE AND UNION HIGH SCHOOL, COIMBATORE, 1960-62; ENGINEERING ASSISTANT AND SENIOR ENGINEERING ASSISTANT, A.I.R., BOMBAY, 1963-69; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1969-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN SPECIAL PURPOSE POWER SUPPLIES FOR ELECTRON OPTICS AND AGRICULTURAL INSTRUMENTATION.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 3, PATENTS FILED CURRENTLY - 3, PROCESSES DEVELOPED - 3, PROCESS UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 24, MAINTENANCE - 6, TEACHING - 2.

828

MRS PRAMILA DHAR; (B. FEBRUARY 17, 1947),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS AND TELECOMMUNICATION - ROORKEE '68.

SPECIALIZATIONS : COLOUR T V RECEIVERS; COLOUR GRAPHICS.

EXPERIENCE : J.S.A. AND S.S.A., RRL, BHUBANESWAR, 1968-71, ASSISTANT ENGINEER. TOSHNIWAL INDUSTRIES PVT. LTD., AJMER, 1971-72; S.S.A., SCIENTIST A, SCIENTIST B AND SCINTIST C, CEERI, 1972-89; SCIENTIST EI, CEERI SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D IN COLOUR GRAPHIC TERMINAL; VLSI CHIP DESIGN FOR DIGITAL TV RECEIVER.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 15, TECH. DEV. - 15, MAINTENANCE - 4.

829

SHRI R C DUBEY; (B. DECEMBER 15, 1943),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - INDORE '66; D.I.I.T. APPLIED OPTICS - I.I.T., DELHI '67; M.SC. (TECH.) ELECTRONICS - BITS '72.

SPECIALIZATIONS : PHOTOVOLTAICS; SEMICONDUCTOR DEVICES; CMOS TECHNOLOGY.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1966-86; SCIENTIST EI, CEERI SINCE AUGUST, 1986.

PRESENT ACTIVITIES : R & D IN CMOS TECHNOLOGY; CLEAN ROOMS MANAGEMENT.

LANGUAGES : HINDI, ENGLISH, GERMAN, FRENCH.

VISITED : BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS AND TECH. REPORTS - 21.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, DESIGN - 20, TECHNICAL DEVELOPMENT - 20.

830

SHRI HARISH KUMAR DWIVEDI; (B. MARCH 20, 1954),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - CALCUTTA '74; M.SC. PHYSICS - KANPUR '77.

SPECIALIZATIONS : MICROWAVE TUBE TECHNOLOGY; ULTRA HIGH VACUUM TECHNIQUES; GAS DISCHARGE TUBE TECHNOLOGY; THERMAL ANALYSIS OF ELECTRON TUBE COMPONENTS.

EXPERIENCE : J.R.F., N.P.L., NEW DELHI, 1978-79; J.S.A., CEERI, 1979-80; S.R.A., BHU, VARANASI, 1980; S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1980-91; (ALSO DAAD FELLOWSHIP, GERMANY, 1984-85); SCIENTIST EI, CEERI SINCE FEBRUARY, 1991

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 1, ARTICLES - 1.

AWARDS & DISTINCTIONS : LIFE FELLOW, IETE (INDIA), 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15.

831

DR V K DWIVEDI; (B. JANUARY 1, 1949),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - LUCKNOW '71; M.SC. CHEMISTRY - LUCKNOW '73; PH.D. CHEMISTRY - LUCKNOW '78.

SPECIALIZATIONS : INTEGRATED CIRCUIT PROCESSING; PHOTOLITHOGRAPHY FOR ICS; SOLID STATE CHEMISTRY; IC PROCESS INTEGRATION, SIMULATION.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1979-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SOLID STATE SILICON SENSORS (PRESSURE & ACCELERO METER).

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 3, ARTICLES - 2, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 9, DESIGN - 3, TECH. DEV. - 9, R & D MANAGEMENT - 4, PLANNING - 3, DOCUMENTATION - 2, COMPUTER PROC. - 6.

832

SHRI N C GUPTA; (B. DECEMBER 20, 1942),

TECHNICAL OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '62.

SPECIALIZATIONS : MICROWAVE TUBE TECHNOLOGY; HIGH VACUUM TECHNOLOGY.

EXPERIENCE : J.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND TECHNICAL OFFICER (C), CEERI, 1963-88:TECHNICAL OFFICER (EI), CEERI SINCE APRIL, 1988

PRESENT ACTIVITIES : R & D IN MICROWAVE TUBES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1, PAPERS PRESENTED - 5, PATENTS TAKEN - 2, PATENTS FILED - 2, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23, DESIGN - 23.

833

SHRI R K GUPTA; (B. JANUARY 17, 1955),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRONICS - DELHI '76; M.TECH. ELECTRONICS - DELHI '79.

SPECIALIZATIONS : MICROWAVE ELECTRONICS; MICROWAVE TUBES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1981-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : GERMANY, ENGLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 4, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

834

SHRI S S GUPTA; (B. JULY 24, 1944),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. INORGANIC CHEMISTRY - AGRA '68.

SPECIALIZATIONS : CHEMICAL CLEANING OF VACUUM TUBE PARTS AND SUB-ASSEMBLIES; ELECTROPLATING.

EXPERIENCE : LECTURER, S.V. COLLEGE, ALIGARH, 1968-69; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1969-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : CHEMICAL CLEANING OF VACUUM TUBE PARTS AND SUB-ASSEMBLIES, ELECTROPLATING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, CHEMICAL CLEANING OF VACUUM TUBE PARTS AND SUB-ASSEMBLIES - 18.

835

SHRI Y K JAIN; (B. JANUARY 2, 1948),

SCIENTIST EI. CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE. PILANI.

QUALIFICATIONS : B.SC. - AGRA '67; M.SC. PHYSICS - BITS '69; M.SC. (TECH.) ELECTRONICS - BITS '71.

SPECIALIZATIONS : HYBRID CIRCUITS; SEMICONDUCTOR DEVICES; MICROWAVES; PLASMA PHYSICS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1971-88; (ALSO TRAINING IN HYBRID CIRCUITS, USA & UK, 1986 & TRAINING N LASER TRIMMER, U.S.A., 1986); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : DEVLOPMENT OF HYBRID CIRCUITS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH REPORTS - 9, PATENTS TAKEN - 4.

AWARDS & DISTINCTIONS : BEST PAPER AWARD, I S H M, 1989; NRDC AWARD FOR MERITORIOUS INVENTION OF HYBRID THICK FIBER MICROWAVE, 1990; A N CHATTERJEE MEMORIAL AWARD, INDIAN CRYOGENICS COUNCIL. CALCUTTA, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 22, APP. RES. - 22, DESIGN - 22, TECH. DEV. - 22. CONSULTANCY - 9, R & D MANAGEMENT - 16, QUALITY CONTROL - 16, PRODUCTION - 16, PLANNING - 22. TECH.TRANSFER - 9, DOCUMENTATION - 22.

836

SHRI V K KHANNA; (B. NOVEMBER 25, 1952),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - LUCKNOW '73; M.SC. PHYSICS - LUCKNOW '75; PH.D. PHYSICS - KURUKSHETRA '88

SPECIALIZATIONS : PHYSICS; POWER SEMICONDUCTOR DEVICES; THIN FILMS.

EXPERIENCE : RESEARCH ASSTT., UNIVERSITY OF LUCKNOW, 1977-80; J.S.A., S.S.A. SCIENTIST B AND SCIENTIST C, CEERI, 1980-90; SCIENTIST EI. CEERI SINCE FEBRUARY. 1990.

PRESENT ACTIVITIES : R & D IN POWER SEMICONDUCTOR DEVICES.

LANGUAGES : HINDI. PUNJABI. ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

837

SHRI H S KOTHARI; (B. SEPTEMBER 17, 1941),

SCIENTIST EI. CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - BOMBAY '63; DIPLOMA IN ELECTRONICS AND RADIO ENGINEERING - MAHARASHTRA '66; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS. INDIA '74.

SPECIALIZATIONS : ELECTRONICS; SEMICONDUCTOR DEVICES; SOLAR CELLS.

EXPERIENCE : ELECTRONICS ENGINEER, GOYAL ELECTRONICS. 1966-67; S.T.A., PHYSICAL RESEARCH LABORATORY. AHMEDABAD, 1967-70; S.T.A., SCIENTIST A, SCIENTIST B. AND SCIENTIST C, CEERI, 1970-90; SCIENTIST EI, CEERI SINCE MARCH, 1990.

PRESENT ACTIVITIES : R & D IN GALLIUM ARSENIDE AND SUPERCONDUCTIVITY DEVICES.

LANGUAGES : GUJARATI. HINDI. ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 2, PROCESSES DEVELOPED - 5. PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 19.

838

DR LALIT KUMAR; (B. JUNE 9, 1953),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '73; PH.D. PHYSICS - BITS '80.

SPECIALIZATIONS : MICROWAVE ENGINEERING; MICROWAVE TUBE TECHNOLOGY; COMPUTER AIDED DESIGN.

EXPERIENCE : RESEARCH FELLOW, B.I.T.S., PILANI, 1974-78; SCIENTIST B AND SCIENTIST C, CEERI, 1978-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D ON MICROWAVE TUBES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 9, TECH. DEV. - 9, COMPUTER PROCESSING - 8.

839

SHRI G K MAHAJAN; (B. OCTOBER 25, 1936),

SENIOR DOCUMENTATION OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.A. - PANJAB '55; DIPLOMA IN LIBRARY SCIENCE - PANJAB '61; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '66.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : LIBRARIAN, CENTRAL SECRETARIAT LIBRARY, NEW DELHI, 1961-62; LIBRARIAN, DEFENCE SCIENCE CENTRE, NEW DELHI, 1962-64; J.S.A., JUNIOR DOCUMENTATION OFFICER (C), CEERI, 1964-88; SENIOR DOCUMENTATION OFFICER (EI) CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : DISSEMINATION OF INFORMATION.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 16, DOCUMENTATION - 24.

840

SHRI S K MAHAJAN; (B. OCTOBER 7, 1950),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - VIKRAM '69; M.SC. PHYSICS - VIKRAM '71; M.TECH. ELECTRICAL ENGINEERING - I.I.T., BOMBAY '74.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES; COMPUTER AIDED DESIGN OF POWER DEVICES.

EXPERIENCE : S.S.A. AND SCIENTIST C, CEERI, 1976-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN COMPUTER AIDED DESIGN OF POWER DEVICES.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12, DESIGN - 12, TECH. DEV. - 12, TESTING - 12, QUALITY CONTROL - 12.

841

SHRI ROY MATHEW; (B. APRIL 28, 1942),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - KERALA '63; GRAD. I.E.T.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '72.

SPECIALIZATIONS : TRANSMITTING TUBES TECHNOLOGY; VACUUM TECHNIQUES; ELECTRONIC POWER SUPPLIES; CATHODES FOR MICROWAVE TUBES.

EXPERIENCE : S.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1964-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : DEVELOPMENT OF POWER TUBES.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1, PATENTS TAKEN - 1.

AWARDS & DISTINCTIONS : PROF S K MITRA AWARD FOR BEST RESEARCH PAPER, INSTITUTION OF ENGINEERS (INDIA), 1968.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 10, TECH. DEV. - 15.

842

SHRI K CHANDRA SEKHARA MURTY; (B. OCTOBER 11, 1950),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS - ANDHRA '72; M.TECH. ELECTRONICS - BITS, PILANI '74.

SPECIALIZATIONS : MICROPROCESSORS AND SOFTWARE; COMPUTER COMMUNICATIONS; BROADCASTING; TRAINING & RETRAINING; DIGITAL MAPPING SYSTEMS.

EXPERIENCE : RESEARCH OFFICER/ASSISTANT STATION ENGINEER, ALL INDIA RADIO, 1974-80; ASSISTANT PROFESSOR, MILITARY COLLEGE OF TELECOMMUNICATION, MHOW, 1980-83; SCIENTIST C, C.E.E.R.I., 1983-88; SCIENTIST EI, C.E.E.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN LOCAL AREA NETWORKING FOR PROCESS CONTROL; SOFTWARE DEVELOPMENT; TRAINING & RETRAINING; PLANNING AND MANAGEMENT OF MICROPROCESSOR DEVELOPMENT SYSTEMS.

LANGUAGES : TELUGU, HINDI, SANSKRIT, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, TEACHING - 13, R & D MGMT., SOFTWARE DEVELOPMENT, CENTRALISED MICROPROCESSOR DEVELOPMENT SYSTEMS.

843

DR R K NAHAR; (B. MAY 8, 1949),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '69; M.SC. PHYSICS - UDAIPUR '71; M.TECH. PHYSICS - I.I.T., DELHI '73; PH.D. PHYSICS - I.I.T., DELHI '79.

SPECIALIZATIONS : THIN FILM TECHNOLOGY; VLSI METALLISATION; SEMICONDUCTOR DEVICES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1977-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN THIN FILM DEPOSITION MULTILEVEL METALLISATION AND CHARACTERISATION FOR V.L.S.I.; DEVELOPMENT OF LDD M.O.S. TRANSISTOR AND RELIABILITY STUDIES.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 33, TECH. REPORTS - 8.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA), 1989-90.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, DESIGN - 2, TESTING - 10, TECHNO-ECONOMIC SURVEYS - 5.

844

SHRI LAXMI NARAYAN; (B. JULY 25, 1943),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '66; M.SC. PHYSICS - BITS '68; M.SC. (TECH.) ELECTRONICS - BITS '70.

SPECIALIZATIONS : PROCESS CONTROL INSTRUMENTATION; DIGITAL COMMUNICATION AND ELECTRONIC CONTROL SYSTEMS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1970-88; (ALSO ADVANCED TRAINING IN PROCESS CONTROL INSTRUMENTATION, CZECHOSLOVAKIA, 1978); SCIENTIST EI, CEERI SINCE APRIL, 1988; (ALSO ADVANCE CONTROL SYSTEMS GERMANY, NOVEMBER, 1989).

PRESENT ACTIVITIES : R & D IN PROCESS CONTROL INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : CZECHOSLOVAKIA, WEST GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 4, PATENTS FILED - 2, PROCESSES DEVELOPED - 3.

AWARDS & DISTINCTIONS : ELCINA AWARD, 1985; SILVER MEDAL WORLD INTELLIGENCE ORGANISATION, 1986; SILVER MEDAL, INDIAN MERCHANTS CHAMBER, 1987; NRDC AWARD FOR MERITORIOUS INVENTION, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23.

845

SHRI M NATESAN; (B. AUGUST 14, 1947),

SCIENTIST EI, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING - MADRAS '70; B.E. ELECTRICAL AND ELECTRONIC ENGINEERING - MADRAS '78.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; INDUSTRIAL ELECTRONICS.

EXPERIENCE : JUNIOR TRAINEE, I.C.F., MADRAS, 1970-71; TRAINEE, MECHANIC (A) AND TECHNICAL ASSISTANT, IIT, MADRAS, 1971-80; S.S.A. AND SCIENTIST C, CEERI, 1980-91; SCIENTIST EI, CEERI SINCE MARCH, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, TESTING - 3, QUALITY CONTROL - 6, MAINTENANCE - 7.

846

SHRI JAI PRAKASH PACHAURI; (B. AUGUST 15, 1948),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '76; M.E. MICROELECTRONICS - PILANI '93.

SPECIALIZATIONS : SOLID STATE DEVICES; MICROWAVE DEVICES; MICROELECTRONICS; SUPERCONDUCTIVITY.

EXPERIENCE : ASSISTANT TEACHER, S.P.R.I.C. COLLEGE, AGRA, 1968-70; GRADUATE APPRENTICE, S.L.A., J.T.A., S.S.A., SCIENTIST B AND SCIENITIST C, CEERI, 1970-91; (ALSO TRAINING IN MICROWAVE SEMICONDUCTOR DEVICES, W.GERMANY, 1980 -82); SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MICROELECTRONIC.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 3, PATENTS TAKEN - 2, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : A N CHATTERJEE MEMORIAL MEDAL, INDIAN CRYOGENICS COUNCIL, CALCUTTA, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, APP. RES. - 18, TEACHING - 2.

847

SHRI S D PARLEKAR; (B. JULY 10, 1951),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI

QUALIFICATIONS : B.SC. - INDORE '73; M.SC. PHYSICS - INDORE '75; D.I.I.SC. ELECTRONICS DESIGN - I.I.SC. BANGALORE '80.

SPECIALIZATIONS : POWER ELECTRONICS.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST C, CEERI, 1975-91; (ALSO TRAINING IN TRANSISTOR INVERTER DEVELOPEMENT, BRADFORD UNIVERSITY, U.K., 1983-84 AND SIMULATION STUDIES OF MACHINES, UNIVERSITY OF WIS-

CONSIN, U.S.A., 1985-86); SCIENTIST EI, CEERI SINCE FEBRUARY, 1991

PRESENT ACTIVITIES : R & D POWER ELECTRONICS EQUIPMENT.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, TECH. DEV. - 5.

848

SHRI GANDIKOTA PRASAD; (B. JULY 1, 1953),

SCIENTIST EI, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATIONS - ANDHRA '76; M.E. CONTROL SYSTEMS - ANDHRA '79; P.G. APPLIED STATISTICS - ANDHRA '77.

SPECIALIZATIONS : CONTROL SYSTEMS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1981-89; SCIENTIST EI, CEERI SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : R & D ON MICROPROCESSOR BASED PROCESS CONTROL SYSTEMS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, DESIGN - 6.

849

SHRI P BHANU PRASAD; (B. MAY 8, 1957),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '76; M.SC. (TECH.) ELECTRONICS - KAKATIYA '79; PH.D. UNIVERSITY OF BRADFORD, U.K. '90.

SPECIALIZATIONS : DIGITAL ELECTRONICS AND MICROPROCESSORS; MP & PC BASED PROCESS CONTROL INSTRUMENTATION; ARTIFICIAL INTELLIGENCE SYSTEMS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1980-85; COMMONWEALTH SCHOLAR, UNIVERSITY OF BRADFORD, UK, 1986-90; SCIENTIST EI, CEERI SINCE MARCH, 1990.

PRESENT ACTIVITIES : PROCESS CONTROL INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 3.

AWARDS & DISTINCTIONS : CEERI AWARD, 1984.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, DESIGN - 14, TESTING - 14, TEACHING - 2.

850

SHRI SHARDA PRASAD; (B. AUGUST 7, 1947),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - ALLAHABAD '65; M.SC. (TECH.) ELECTRONICS AND RADIO ENGINEERING - ALLAHABAD '70; DIPLOMA IN GERMAN LANGUAGE - ALLAHABAD '70.

SPECIALIZATIONS : MICROWAVE TUBES; MICROWAVE ENGINEERING; VACUUM TECHNIQUES; CONTROL SYSTEMS.

EXPERIENCE : ASSISTANT LECTURER, K.P. INTERMEDIATE COLLEGE, ALLAHABAD, 1965-67; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1971-89; SCIENTIST EI, CEERI SINCE AUGUST, 1989.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF HIGH POWER PULSE MAGNETRONS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 10, APP. RES. - 22, DESIGN - 15, TECH. DEV. - 22, R & D MGMT. - 15, TEACHING - 2, PLANNING - 15, TECH. TRANSFER - 2.

851

SHRI T RAGHAVENDRA; (B. JUNE 1, 1953)),

SCIENTIST EI, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - KARNATAK '72; B.E. ELECTRONICS AND COMMUNICATIONS - KARNATAK '76.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS; AUDIOVISUAL SYSTEMS.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1978-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF ELECTRONIC CIRCUITS.

LANGUAGES : KANNADA, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES.- 9, DESIGN - 9, TECH. DEV. - 9.

852

SHRI S RAGHUNATH; (B. SEPTEMBER 11, 1948),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - BITS '67; M.SC. PHYSICS - BITS '69.

SPECIALIZATIONS : ELECTRONICS; IONOSPHERE AND SPACE PHYSICS; MICROWAVES; ANTENNA SYSTEMS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1970-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN COLOUR GRAPHICS TERMINAL; VLSI CHIP DESIGN FOR DIGITAL TV RECEIVER.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, PROCESSES DEVELOPED - 7.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 17, DESIGN - 17, TECH. DEV. - 17.

853

DR R S RAJU; (B. SEPTEMBER 24, 1952),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.TECH ELECTRONICS AND COMMUNICATION - J.N.T.U., COLLEGE OF ENGINEERING, KAKINADA '76; M.E. MICROWAVE & RADAR - ROORKEE '78; PH.D. ELECTRONICS - UNIVERSITY OF CAMBRIDGE, U.K. '87.

SPECIALIZATIONS : MICROWAVE ENGINEERING; ELECTROMAGNETISM; COMPUTER PROGRAMMING; HIGH CURRENT DENSITY CATHODES; MAGNETIC FOCUSSING SYSTEMS.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI. 1978-84; SCIENTIST EI, CEERI SINCE SEPTEMBER, 1984.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.K., GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9.

854

SHRI C RAMACHANDRA; (B. APRIL 1, 1955),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - MYSORE '76.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES.

EXPERIENCE : ENGINEERING SCIENTIST, I.S.R.O., SATELLITE CENTRE, BANGALORE, 1977-81; Q.A. ENGINEER, SILTRONICS (I) LTD., HOSUR, 1982-84; SCIENTIST C, CEERI, 1984-89; (ALSO TRAINING UNDER UNDP, IN THE MAINTENANCE OF LASER TRIMMER AND SPREADING RESISTANCE PROBE SYSTEM, U.S.A., 1986 AND ALSO IN SEMICONDUCTOR DEVICES PROCESSING EQUIPMENTS, BELGIUM, 1986); SCIENTIST EI, CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : EQUIPMENT MAINTENANCE.

LANGUAGES : KANNADA, HINDI, SANSKRIT, ENGLISH.

VISITED : U.S.A., BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 4, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, PILOT PLANT - 1, R&D MGMT. - 4, TESTING - 7, QUALITY CONTROL - 7, MAINTENANCE - 4, IND. MGMT. - 2.

855

SHRI K RAMAMURTHY; (B. JULY 5, 1935),

TECHNICAL OFFICER (EI), CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTRICAL COMMUNICATION ENGINEERING - BOMBAY '56; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '63; A.M.I.E. - INSTITUTION OF ENGINEERS, INDIA '81.

SPECIALIZATIONS : BATCH PRODUCTION OF ELECTRONIC EQUIPMENT.

EXPERIENCE : ASSISTANT SIGNALS INSPECTOR, CENTRAL RAILWAY, 1956-64; S.S.A., SCIENTIST A, SCIENTIST B AND TECHNICAL OFFICER (C), CEERI. 1964-90; TECHNICAL OFFICER (EI), CEERI SINCE JUNE, 1990.

PRESENT ACTIVITIES : DEVELOPMENT OF A TENSILE STRENGTH METER FOR COTTON AND SYNTHETIC YARN; DEVELOPMENT OF ELECTRONIC PRODUCTS.

LANGUAGES : TAMIL, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 9, PILOT PLANT - 5, CONSTRUCTION - 5, TESTING - 11, PRODUCTION - 5, TECHNO-ECONOMIC SURVEYS - 3, PLANNING - 3, EXTENSION - 3.

856

SHRI K S NAGABHUSHANA RAO; (B. JUNE 1, 1950),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - KARNATAK '75; M.S. ELECTRONICS - BITS, PILANI '92.

SPECIALIZATIONS : WIDE OPEN MICROWAVE RECEIVERS; ROTARY DIRECTION FINDING SYSTEMS; MICROPROCESSOR BASED PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : S.S.A., DLRL, HYDERABAD, 1977-80; SCIENTIST C, CEERI, 1980-90; SCIENTIST EI, CEERI SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : R & D IN MICROPROCESSOR BASED PROCESS CONTROL INSTRUMENTATION FOR SUGAR INDUSTRY.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 28.

AWARDS & DISTINCTIONS : ELCINA AWARD, 1985; WIPO SILVER MEDAL, 1985; I M C AWARD, 1985; NRDC AWARD, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 8, TECH. DEV. - 8.

857

SHRI P SUDHAKARA RAO; (B. MARCH 15, 1954),

SCIENTIST EI, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE , PILANI).

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - MYSORE '77.

SPECIALIZATIONS : ELECTRONICS & COMMUNICATION ENGINEERING.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1979-89; SCIENTIST EI, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : NRDC AWARD, 1983.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8.

858

SHRI D P RUNTHALA; (B. JULY 10, 1945),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICAL CHEMISTRY - BITS, PILANI '69.

SPECIALIZATIONS : FABRICATION OF INTEGRATED CIRCUITS.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1970-91; (TRAINING IN ADVANCED TECHNOLOGY OF SEMICONDUCTOR DEVICES, NETHERLANDS, 1979-80); SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : FABRICATION OF INTEGRATED CIRCUITS.

LANGUAGES : HINDI, ENGLISH, DUTCH.

VISITED : NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 4, PATENTS TAKEN - 3, PATENTS FILED - 1, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18.

859

DR S P S SAINI; (B. JULY 15, 1947),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MEERUT '69; M.SC. PHYSICS - MEERUT '71; PH.D. PHYSICS - MEERUT '78; DIPLOMA IN COLOUR T.V. RECEIVER ALIGNMENT - UK '81.

SPECIALIZATIONS : MINE COMMUNICATION; NOISE IN ANTENNAS; ELECTRONICS; INTEGRATED ACTIVE ANTENNAS COMMUNICATION; PERSONAL COMPUTERS.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1972-88 (ALSO POST-DOCTORAL FELLOW, UNIVERSITY OF BIRMINGHAM, UK, 1979-81); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ANTENNA. INTEGRATED ACTIVE ANTENNAS COMMUNICATION AND MINE COMMUNICATION; PERSONAL COMPUTERS APPLICATIONS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 2. PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN, TECH. DEV., TESTING, MAINTENANCE, PLANNING, TECHNOLOGY TRANSFER, COMPUTER PROCESSING - (TOTAL 15 YEARS).

860

SHRI K S SANGWAN; (B. NOVEMBER 1, 1951),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS - BITS '73; M.E. ELECTRONICS - BITS '75.

SPECIALIZATIONS : DIGITAL ELECTRONICS; PROCESS CONTROL INSTRUMENTATION; COLOUR T V ENGINEERING.

EXPERIENCE : HEAD, ELECTRONICS DIVISION, THE ORIENTAL SCIENCE APPARATUS WORKSHOP, AMBALA CANTT., 1975-78; ASSISTANT MANAGER, TELETUBE ELECTRONICS PVT. LTD., GHAZIABAD, 1978-80; SCIENTIST B AND SCIENTIST C, CEERI, 1980-89; SCIENTIST EI, CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : EQUIPMENT DESIGN AND COLOUR T.V. PRODUCTION.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 1, QUALITY CONTROL - 1, MAINTENANCE - 1, PRODUCT ENGINEERING AND PRODUCTION - 8.

861

MRS ARUNA SHARMA; (B. NOVEMBER 7, 1948),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS - BITS '70; M.E. ELECTRONICS (MICROWAVE) - ROORKEE '73.

SPECIALIZATIONS : MICROWAVE SOLID STATE DEVICES; PARAMETRIC AMPLIFIERS; MICROWAVE TUBES AND TECHNIQUES; ELECTRONICS.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1970- 89; SCIENTIST EI, CEERI SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D IN MICROWAVE TUBES; APPLIED RESEARCH DESIGN & DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 7, PROCESS DEVELOPED - 3.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1984; FELLOW, IETE (INDIA); LIFE MEMBER OF IVS INDIA; LIFE MEMBER, INDIAN PHYSICAL ASSOCIATION.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN - 5, TECH. DEV. - 7.

862

MRS ASHA SHARMA; (B. OCTOBER 18, 1945),

SCIENTIST EI , CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTRONICS ENGINEERING - DELHI '66; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '70.

SPECIALIZATIONS : DIGITAL SWITCHING CIRCUITS.

EXPERIENCE : S.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND TECHNICAL OFFICER (C), CEERI, 1966-91; SCIENTIST EI, CEERI SINCE JANUARY, 1991.

PRESENT ACTIVITIES : R & D ON TELEPHONE EXCHANGES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 6, PILOT PLANT - 4, QUALITY CONTROL - 4, MAINTENANCE - 3.

863

SHRI D M K SHARMA; (B. JANUARY 13, 1939),

TECHNICAL OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '59; P.G. COURSE IN MATERIALS ENGINEERING - ALLAHABAD '70; DIPLOMA IN GERMAN - B.I.T.S., PILANI '64.

SPECIALIZATIONS : ELECTROCHEMICAL TECHNOLOGY OF SEMICONDUCTORS; CHEMICAL CLEANING AND PROCESSING OF VACUUM TUBE MATERIALS; SPRAY PAINTING AND ANODISING.

EXPERIENCE : S.L.A., J.S.A., S.T.A., SCIENTIST A, SCIENTIST B, AND TECHNICAL OFFICER (C), CEERI, 1961-90; (ALSO TRAINING IN ELECTROPLATING & ANODISING AND CORROSION CECRI, KARAIKUDI, 1962-63); TECHNICAL OFFICER (EI), CEERI SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : R & D IN ELECTROCHEMISTRY AND SEMICONDUCTORS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 2, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, TECH. DEV. - 7, CONSULTANCY - 10.

864

SHRI S M SHARMA; (B. JANUARY 1, 1943),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. TELECOMMUNICATION - ROORKEE '64; M.E. ELECTRONICS - BITS '71.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; RADIO SIGNAL RECEIVING SYSTEMS; DIGITAL INSTRUMENTATION; MICROPROCESSOR BASED SYSTEMS DESIGN.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1965-87; SCIENTIST EI, CEERI SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 4, PATENTS TAKEN - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES - 22, DESIGN - 22, TECH. DEV. - 22.

865

SHRI U C SHARMA; (B. JANUARY 2, 1946),

SCIENTIST EI, CEERI CENTRE, NEW DELHI (CEERI, PILANI).

QUALIFICATIONS : B.SC. - KURUKSHETRA '65; M.SC. PHYSICS - BITS '72.

SPECIALIZATIONS : ELECTRON OPTICS; ELECTRON MICROSCOPY; HIGH VACUUM TECHNOLOGY; MICROPROCESSOR BASED SOFTWARE.

EXPERIENCE : J.S.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1968-88; (ALSO TRAINING IN ELECTRON OPTICS, UNIVERSITY OF CAMBRIDGE, U.K., 1983); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN MICROPROCESSOR BASED SYSTEMS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 4, PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, DESIGN - 8, TECH. DEV. - 8, R & D MGMT. - 8, OPERATION - 1.

866

DR CHANDRA SHEKHAR; (B. OCTOBER 12, 1951),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PANJAB '69; M.SC. PHYSICS - BITS '71; PH.D. PHYSICS - BITS '75.

SPECIALIZATIONS : SOLID STATE DEVICES; COMPUTER AIDED DESIGN OF INTEGRATED AND LSI CIRCUITS; SEMICONDUCTOR PHYSICS AND TECHNOLOGY.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1977-87; (ALSO TRAINING IN COMPUTER AIDED DESIGN FOR LARGE SCALE INTEGRATED CIRCUITS AND AUTOMATED MASK MAKING, FRANCE, 1980); SCIENTIST EI, CEERI SINCE AUGUST, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH, GERMAN.

VISITED : FRANCE, U.S.A., BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 7, DESIGN - 5, TECH. DEV. - 2, TEACHING - 3, PLANNING - 4.

867

SHRI RAJVEER SINGH SHEKHAWAT; (B. JUNE 17, 1957),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. (HONS.) PHYSICS - BITS, PILANI '80; B.E. (HONS.) ELECTRICAL AND ELECTRONICS ENGINEERING - BITS, PILANI '81

SPECIALIZATIONS : UHF/VHF ENGINEERING; T V ENGINEERING. MICROPROCESSORS. COMPUTER COMMUNICATIONS; SOFTWARE ENGINEERING.

EXPERIENCE : DESIGN TRAINEE AND AERONAUTICAL ENGINEER. H.A.L., HYDERABAD, 1982-83; SCIENTIST B AND SCIENTIST C, CEERI, 1983-91; SCIENTIST EI, CEERI SINCE JANUARY, 1991.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF REAL TIME LOCAL AREA NETWORK.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS :.RES. PAPERS - 16, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 4, DESIGN - 4.

868

SHRI AMRIK SINGH; (B. MAY 12, 1948)),

SCIENTIST EI, CEERI CENTRE, NEW DELHI (CENTRAL ELECTORNICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - DELHI '69; A.M.I.E. ELECTRONICS AND TELECOMMUNICATION - INSTITUTION OF ENGINEERS, INDIA '76.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS; DIGITAL COMMUNICATION; POWER ELECTRONICS; COMPUTER SCIENCE.

EXPERIENCE : TECHNICAL SUPERVISOR, CHIEF INSPECTORATE OF ELECTRONICS, BANGALORE, 1970-74; J.T.A., S.T.A./S.S.A. AND SCIENTIST C, CEERI, 1974-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN DIGITAL ELECTRONICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES.PAPERS - 1, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES.- 13, DESIGN - 13, TECH. DEV. - 13, TESTING - 4.

869

SHRI AVTAR SINGH; (B. AUGUST 15, 1942),

MECHANICAL ENGINEER (EI), CEERI CENTRE, NEW DELHI (CEERI, PILANI).

QUALIFICATIONS : A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS, INDIA '72.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY; MANUFACTURING TECHNIQUES.

EXPERIENCE : TOOL AND DIE MAKER, HARIG MALIK MFG. CO., SAHIBABAD, 1960-61; MECHANIC, P.T.C., NEW DELHI, 1963-64; MECHANIC, IIT, NEW DELHI, 1964-70; SENIOR MECHANICAL ASSISTANT, MECHANICAL ENGINEER (A), MECHANICAL ENGINEER (B) AND MECHANICAL ENGINEER (C) CEERI, 1970-91; MECHANICAL ENGINEER (EI), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MECHANICAL DESIGN AND FABRICATION OF VARIOUS SYSTEMS USED IN ELECTRONIC SYSTEMS; OPERATION AND MAINTENANCE OF MACHINE TOOLS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 23, OPERATION - 6, PRODUCTION - 3.

870

SHRI FATEH SINGH; (B. AUGUST 5, 1937),

MECHANICAL ENGINEER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : NATIONAL SUPERVISORY CERTIFICATE - NATIONAL PRODUCTIVITY COUNCIL, DELHI '72.

SPECIALIZATIONS : DESIGN & DEVELOPMENT OF MACHINE TOOLS.

EXPERIENCE : FITTER AND DIE MAKER IN VARIOUS PRIVATE ORGANISATIONS, 1956-60; SENIOR MECHANICAL ASSISTANT, MECHANICAL ENGINEER (A), MECHANICAL ENGINEER (B) AND MECHANICAL ENGINEER (C), CEERI, 1960-90; MECHANICAL ENGINEER (EI), CEERI SINCE JUNE, 1990.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF MACHINE AND TOOLS.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 6, PATENTS FILED - 8, PROCESSES DEVELOPED - 8, PROCESSES UNDER UTILISATION - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 12, PILOT PLANT - 6.

871

SHRI H R SINGH; (B. JULY 5, 1952),

SCIENTIST EI, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - MEERUT '71; M.SC. PHYSICS - MEERUT '73; POST GRADUATE DIPLOMA IN T.V. TECHNOLOGY - ROORKEE '76; M.TECH. ELECTRONICS AND COMMUNICATION - ROORKEE '77.

SPECIALIZATIONS : T V TECHNOLOGY; THIN FILM INTEGRATED DEVICES; MICROPROCESSOR BASED SYSTEM DESIGN AND DIGITAL TECHNOLOGY.

EXPERIENCE : R & D ENGINEER, BUSINESS MACHINE PVT. LTD., NEW DELHI, 1977-78; PRODUCTION ENGINEER, DISCO ELECTRONICS, NEW DELHI, 1978; S.R.F., ROORKEE UNIVERSITY, ROORKEE, 1979; SCIENTIST B AND SCIENTIST C, CEERI, 1979-90; SCIENTIST EI, CEERI SINCE DECEMBER, 1990.

PRESENT ACTIVITIES : R & D IN AUDIOVISUAL SYSTEMS, THIN FILM INTEGRATED DEVICES AND MICROPROCESSOR BASED SYSTEM DESIGN.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, TECH. DEV. - 7.

872

DR J K SINGH; (B. AUGUST 5, 1942),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - BHU '61; M.SC. PHYSICS - AGRA '64; PH.D. PHYSICS - BHU '70.

SPECIALIZATIONS : MICROWAVE AND MILLIMETER WAVE SEMICONDUCTOR DEVICE PHYSICS AND TECHNOLOGY; FABRICATION OF MICROWAVE INTEGRATED CIRCUITS; GALLIUM ARSENIDE DEVICES AND CIRCUITS.

EXPERIENCE : S.S.A., NPL, NEW DELHI, 1971-72; SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1972-87; SCIENTIST EI, CEERI SINCE FEBRUARY, 1987; (ALSO ADVANCED TRAINING IN DESIGN & DEVELOPMENT OF MILLIMETER WAVE SEMICONDUCTOR DEVICES, UK, 1979-80).

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 2, PROCESSES DEVELOPED - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 2, DESIGN - 8, TECH. DEV. - 8.

873

SHRI R N SINGH; (B. OCTOBER 11, 1942),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. (TECH.) ELECTRONICS AND RADIO ENGINEERING - ALLAHABAD '68; CERTIFICATE IN GERMAN - ALLAHABAD '68.

SPECIALIZATIONS : MICROWAVE ENGINEERING; TUBE TECHNOLOGY AND TECHNIQUES; VACUUM TECHNOLOGY; MICROWAVE MEASUREMENTS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1970-88; TRAINING IN TUBE TECHNOLOGY SPECIALLY ON THE FABRICATION TECHNIQUES OF DISPENSER CATHODES, UK, 1980); SCIENTSIT EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D ON SPECIAL PURPOSE HIGH POWER MICROWAVE TUBES AND PROJECT LEADER, FACILITIES.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

VISITED : U.K.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA); LIFE MEMBER, INDIAN PHYSICAL ASSOCIATION; LIFE MEMBER, VACUUM SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, DESIGN - 16, TECH. DEV. - 16, R&D MGMT. - 12, TESTING - 16, QUALITY CONTROL - 16, PLANNING - 12.

874

SHRI TRILOCHAN SINGH; (B. SEPTEMBER 6, 1939),

INDUSTRIAL LIAISON OFFICER (EI), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.A. - DELHI '62; MASTER OF VOCATIONAL STUDIES MVS INFORMATION MANAGEMENT - BITS, PILANI '90.

SPECIALIZATIONS : INDUSTRIAL LIAISON; TECHNOLOGY UTILIZATION; INDUSTRIAL DEVELOPMENT; PUBLIC RELATIONS.

EXPERIENCE : S.T.A., INDUSTRIAL LIAISON OFFICER (A1), INDUSTRIAL LIAISON OFFICER (B1) AND INDUSTRIAL LIAISON (C1), CEERI, 1966-91; INDUSTRIAL LIAISON OFFICER, (EI), CEERI SINCE FEBRUARY, 1991.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES PUBLISHED - 4, PRESENTED - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MANAGEMENT - 5, INDUSTRIAL LIAISON WITH INDUSTRY - 22.

875

SHRI S C SOOD; (B. OCTOBER 6, 1944),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PANJAB '65; M.SC. PHYSICS - MEERUT '71.

SPECIALIZATIONS : SEMICONDUCTOR POWER DEVICES.

EXPERIENCE : J.T.A., S.S.A. AND SCIENTIST C, CEERI, 1973-91; SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14.

876

SHRI VISHNU SRIVASTAVA; (B. NOVEMBER 22, 1953),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '73; M.SC. PHYSICS - RAJASTHAN '75; PH.D. ENGINEERING - UNIVERSITY OF LANCESTER, U.K. '87.

SPECIALIZATIONS : HIGH POWER MICROWAVE TUBES; COMPUTER AIDED DESIGN; RF MEASUREMENTS; UHV TECHNOLOGY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1976-88; (ALSO COMMON WEALTH FELLOWSHIP, U.K., 1984-87); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 8, ARTICLES - 2, COPYRIGHT FILED CURRENTLY - 1, PROCESSES DEVELOPED - 2, PROCESS UNDER UTILISATION - 2, SOFTWARE DEVELOPED - 4.

AWARDS & DISTINCTIONS : CEERI BEST PAPER AWARD, 1993; FELLOW, IETE (INDIA), 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, APPLIED RESEARCH - 18, DESIGN - 4, TECHNICAL DEV. - 14, CONSULTANCY - 2, R & D MANAGEMENT - 1.

877

SHRI I M SUBHARWAL; (B. AUGUST 29, 1939),

SCIENTIST EI, CEERI CENTRE, NEW DELHI(CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : GRAD. I.E.T.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '64.

SPECIALIZATIONS : ANALOG AND DIGITAL ELECTRONICS; ION IMPLANTATION; SERVICE AND MAINTENANCE OF ELECTRONIC EQUIPMENTS AND INSTRUMENTS; COMPUTER AIDED DESIGN.

EXPERIENCE : TELECOMMUNICATION MECHANIC, ORDNANCE DEPOT, DELHI, 1958-62; S.L.A., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1962-85; (ALSO SENIOR ENGINEER, T.T.T.I., CHANDIGARH, 1975-76); SCIENTIST EI, CEERI SINCE JULY, 1985.

PRESENT ACTIVITIES : COMPUTER AIDED DESIGN OF DIGITAL CIRCUITS.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2, ARTICLES - 4, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 3, TECH. DEV. - 7, PILOT PLANT - 2, OPERATION - 4, MAINTENANCE - 10.

878

SHRI K SUBRAHMANYAM; (B. MARCH 12, 1949),

SCIENTIST EI, CEERI CENTRE, MADRAS (CEERI, PILANI).

QUALIFICATIONS : B.SC. - ANDHRA '70; M.SC. PHYSICS - BHOPAL '72.

SPECIALIZATIONS : MICROPROCESSOR APPLICATIONS IN INDUSTRY; INFRARED ANALYSER INSTRUMENTATION; MOISTURE SENSORS FOR INDUSTRY; OPTOELECTRONIC/FIBER OPTIC SENSORS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1973-90; SCIENTIST EI, CEERI SINCE JANUARY, 1990.

PRESENT ACTIVITIES : R & D ON NEAR INFRARED FOOD QUALITY ANALYSER.

LANGUAGES : TELUGU, HINDI, KANNADA, TAMIL, ENGLISH.

VISITED : CANADA, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 4, PROCESSES DEVELOPED - 4, PROCESS UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD FOR BEST PROJECT, 1986, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13, SURVEY OF NATURAL RESOURCES - 1.

879

DR U S TANDON; (B. AUGUST 23, 1952),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - ALLAHABAD '68; M.SC. PHYSICS - ALLAHABAD '70; D. PHIL. PHYSICS - ALLAHABAD '73; CERTIFICATE OF PROFICIENCY IN FRENCH - ALLAHABAD '72.

SPECIALIZATIONS : ULTRASONIC GENERATION AND PROPAGATION; MONOCHROMATISATION; X-RAY CRYSTALLOGRAPHY; ELECTRONICS; CERAMIC DEVICES FABRICATION; PROCESSING OF SEMICONDUCTOR DEVICES; PLASMA ETCHING AND CHARACTERISATION; PROCESS SIMULATION.

EXPERIENCE : S.R.F. AND POST DOCTORAL FELLOW (CSIR), UNIVERSITY OF ALLAHABAD, 1972-74; POST DOCTORAL FELLOW, TOHOKU UNIVERSITY, JAPAN, 1974-76; VISITING LECTURER, UNIVERSITY OF SALFORD, U.K., 1976; POOL OFFICER (CSIR), UNIVERSITY OF ALLAHABAD, 1976-78; LECTURER, M.N.R. ENGINEERING COLLEGE, ALLAHABAD, 1979; SCIENTIST B AND SCIENTIST C, CEERI, 1979-89; SCIENTIST EI, CEERI SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : R & D IN PLASMA PROCESSING OF LSI/VLSI.

LANGUAGES : HINDI, ENGLISH, FRENCH, JAPANESE.

VISITED : JAPAN, U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, BOOKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 8, TECH. DEV. - 8, CONSTRUCTION - 4, TEACHING - 4.

880

DR D K THAKUR; (B. OCTOBER 25, 1950),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - RAJASTHAN '70; M.SC. PHYSICS - RAJASTHAN '72; PH.D. PHYSICS - RAJASTHAN '76.

SPECIALIZATIONS : MICROWAVE ELECTRONICS; THIN FILMS; POWER DEVICES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, CEERI, 1977-88; (ALSO TRAINING IN POWER DEVICES, THYRISTOR, TRIAC AND POLYDOX, UK, 1979-80); SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN THYRISTOR, POWER DARLINGTON AND HIGH VOLTAGE TRANSISTOR.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., HOLLAND, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 5, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 11, PILOT PLANT - 1.

881

SHRI T R VASUDEVA; (B. OCTOBER 22, 1938),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PANJAB '60; H.N.C. IN ELECTRONICS AND ELECTRO TECHNOLOGY - UK '64.

SPECIALIZATIONS : VIDEO DISPLAY SYSTEMS DESIGN; ELECTRONIC INSTRUMENTATION FOR SUGAR CRYSTALLISATION; SCANNING ELECTRON MICROSCOPY; SCANNING SYSTEMS DESIGN; T V DEFLECTION(SCANNING)

EXPERIENCE : INSPECTOR, SATCHWELL CONTROLS, UK, 1961-64; TECHNICAL ASSISTANT, MULLARD RADIO VALVE, UK, 1964-65; DEMONSTRATOR, THAPAR ENGINEERING COLLEGE, PATIALA, 1965-68; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, CEERI, 1968-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF ELECTRONIC INSTRUMENTS FOR SUGAR CRYSTALLISATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 4, PATENTS TAKEN - 3, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, DESIGN - 3, TECH. DEV. - 3, PILOT PLANT - 3, TESTING - 3, QUALITY CONTROL - 2, TEACHING - 3.

882

SHRI A VENKATARAMANI; (B. APRIL 16, 1944),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MYSORE '64; A.M.I.E. ELECTRONICS AND TELECOMMUNICATION - INSTITUTION OF ENGINEERS, INDIA '78; M.E. ELECTRONICS - BHARATHIAR '86.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST C, CEERI, 1971-91; (ALSO TRAINING IN ASSEMBLY AND PAKAGING OF SEMICONDUCTOR DEVICES, U.K., 1980); SCIENTIST EI, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : EMULSION AND CHROME MASKS PREPARATION FOR SEMICONDUCTOR DEVICES.

LANGUAGES : TAMIL, HINDI, KANNADA, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 2, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : MEASUREMENT AND PACKAGING - 13, MASK PREPRATION - 4.

883

SHRI RAHUL VERMA; (B. DECEMBER 17, 1953),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS - BHOPAL '75; M.S. POWER - I.I.T., MADRAS '89.

SPECIALIZATIONS : MOTOR DRIVE; UNINTERRUPTIBLE POWER SUPPLIES; POWER ELECTRONICS

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, CEERI, 1977-88; SCIENTIST EI, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : MOTOR DRIVES UPS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, PATENTS TAKEN - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 16.

884

SHRI V N WALIVADEKAR; (B. AUGUST 12, 1951),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. (HONS.) ELECTRICAL - BITS '72; M.E. ELECTRONICS - BITS '74.

SPECIALIZATIONS : T.V. ENGINEERING; POWER ELECTRONICS; ANALOG AND DIGITAL CIRCUITS.

EXPERIENCE : ASSISTANT LECTURER, BITS, PILANI, 1974-75; SCIENTIST B AND SCIENTIST C, CEERI, 1975-86; (ALSO UNESCO FELLOW FOR ADVANCED TRAINING IN T.V. MEASUREMENT TECHNIQUES, ITALY, 1979); SCIENTIST EI, CEERI SINCE APRIL, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 13, PAPERS PRESENTED - 7, PROCESS UNDER UTILISATION - 4, SCIENTIFIC BOOKS - 3.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA); MEMBER, IEEE (USA); MEMBER, INDIAN PHYSICAL ASSOICATION; TEAM MEMBER,FICCI AWARD TO CEERI, 1979.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, DESIGN - 18, TECH. DEV. - 18.

885

SHRI K S YADAV; (B. JANUARY 15, 1949),

SCIENTIST EI, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - G.B. PANT '71; M.SC. PHYSICS - B.I.T.S., PILANI '73; M.TECH. SOLID STATE TECHNOLOGY - I.I.T., MADRAS '84.

SPECIALIZATIONS : ELECTRONICS; SOLID STATE TECHNOLOGY; CMOS TECHNOLOGY.

EXPERIENCE : J.R.F., S.S.A. AND SCIENTIST C, CEERI, 1973-91; SCIENTIST EI, CEERI SINCE MARCH, 1991.

PRESENT ACTIVITIES : COMPUTER AIDED DESIGN FOR CIRCUITS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TECH. DEV., COMPUTER PROCESSING - (TOTAL: 13 YEARS).

886

SHRI J AKHTAR; (B. MARCH 28, 1959),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (HONS.) - MEERUT '77; M.SC PHYSICS - MEERUT '80.

SPECIALIZATIONS : SEMICONDUCTOR DEVICE PHYSICS; DEVICE/IC TECHNOLOGY; MILLIMETER WAVE DEVICES/ICS; DEVICE MODELLING USING COMPUTER.

EXPERIENCE : J.R.F., S.R.F. AND SCIENTIST B, CEERI, 1980-88; SCIENTIST C, CEERI SINCE MARCH, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, URDU, ENGLISH, GERMAN, TURKISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 2, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 3, PROCESS UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD, 1990-91; CEERI FOUNDATION DAY MERIT AWARD, 1991-92.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 6, DESIGN - 7, TECHNICAL DEV. - 13, PILOT PLANT - 6, R & D MANAGEMENT - 13, TESTING - 6, QUALITY CONTROL - 6, MAINTENANCE - 6, PLANNING - 6, ADMINISTRATION - 7.

887

SHRI R D BURMAN; (B. MAY 1, 1944),

HORTICULTURE SUPERINTENDENT (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. (AG) - AGRA '65.

SPECIALIZATIONS : HORTICULTURE.

EXPERIENCE : HORT. SUPDT, HORT. SUPDT. (A) AND HORT. SUPDT (B), CEERI, 1966-91; HORT. SUPDT. (C), CEERI SINCE FEBRAURY, 1991.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : CEERI SILVER JUBILEE YEAR MERIT AWARD, 1978; CEERI FOUNDATION DAY MERIT AWARD, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 27, PLANNING - 27.

888

SHRI N K DABI; (B. OCTOBER 27, 1939),

MECHANICAL ENGINEER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MACHINIST TRADE EXAMINATION - I.T.I., RAJASTHAN '62; FINAL EXAMINATION IN ENGINEERING - C&G, LONDON '63.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : JUNIOR MECHANICAL ENGINEER, M/S TOSHNIWAL INDUSTRIES PVT. LTD., AJMER, 1964-67; MECHANICAL ENGINEER, M/S SARDA ENGINEERING INDUSTRIES PVT. LTD., JAIPUR, 1967-68; PRODUCTION SUPERVISOR, M/S VINKUM ENGINEERING ENTERPRISES PVT. LTD., JAIPUR, 1968-69; PRINCIPAL FOREMAN AND MECHANICAL ENGINEER (A) AND MECHANICAL ENGINEER (B), CEERI, 1969-85; MECHANICAL ENGINEER (C), CEERI SINCE JUNE, 1985.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF MECHANICAL MACHINES, DEVICES AND COMPONENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 8, TECH. DEV. - 7, OPERATION - 2, PRODUCTION - 4, PLANNING - 5.

889

SHRI N M DEVASHRAYEE; (B. DECEMBER 23, 1954),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC PHYSICS - GUJARAT '75; M.SC. APP. PHYSICS - M.S. UNIVERSITY OF BARODA '77; PH.D. PHYSICS - KURUKSHETRA '90.

SPECIALIZATIONS : THIN FILM METALLIZATION.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1979-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D IN THIN FILM AND METALLISATION.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, ARTICLES - 13.

AWARDS & DISTINCTIONS : RAMAN RESEARCH FELLOWSHIP, CSIR, 1991-92.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. PAPERS - 13.

890

SHRI R L DUA; (B. JULY 18, 1943),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - BITS '66; M.SC. TECH. ELECTRONICS - BITS '72.

SPECIALIZATIONS : VACUUM TECHNIQUES; MICROWAVE TUBES; MANAGEMENT.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1966-93; MANAGER, CEERI SINCE MAY, 1993.

PRESENT ACTIVITIES : R & D AND MANAGEMENT.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 27.

891

DR V K DUBE; (B. JULY 7, 1950),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.A. ECONOMICS - BITS '73; PH.D. ECONOMICS - BITS ' 77.

SPECIALIZATIONS : INTERNATIONAL ECONOMICS; PUBLICATION; PUBLIC RELATIONS.

EXPERIENCE : LECTURER, B.I.T.S., PILANI, 1977-84, RESEARCH ASSOCIATE, CEERI, 1984-85; SCIENTIST C, CEERI SINCE NOVEMBER, 1985.

PRESENT ACTIVITIES : PUBLICATIONS AND PUBLIC RELATIONS.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 1, TEACHING - 7, PUBLICATIONS AND PUBLIC RELATIONS - 2.

892

DR G ERANNA; (B. JUNE 8, 1954),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - TIRUPATI '76; M.SC. PHYSICS - TIRUPATI '78; PH.D. PHYSICS - I.I.T., MADRAS '85.

SPECIALIZATIONS : MICROELECTRONICS; MOLECULAR BEAM EPGITAXY; DIFFUSION IN SILICON; PROCESS MODELLING OF IC TECHNOLOGY.

EXPERIENCE : JUNIOR PROJECT ASSOCIATE AND PROJECT ASSOCIATE, I.I.T. MADRAS, 1978-85; LECTURER AND SENIOR SCIENTIFIC OFFICER, IIT KHARAGPUR, 1986-91; SCIENTIST C, CEERI SINCE JULY, 1991.

PRESENT ACTIVITIES : RELIABILITY STUDIES.

LANGUAGES : TELUGU, ENGLISH, HINDI, TAMIL, KANNADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 11, PAPERS PRESENTED IN CONFERENCES - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 14, TEACHING - 2.5, COMPUTER PROC.(SOFTWARE DEVELOPMENT) - 5.

893

SHRI GIRISH KUMAR GAUTAM; (B. MARCH 21, 1956),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC.(HONS.) PHYSICS - BITS, PILANI '78; M.SC.(TECH.) COMPUTER SCIENCE - BITS, PILANI '80.

SPECIALIZATIONS : COMPUTER SCIENCE; MICROPROCESSOR BASED PROCESS SYSTEM DESIGN; MODELLING AND SIMULATION; SOFTWARE IMPLEMENTATION(CAD-PACKAGES).

EXPERIENCE : S.R.F., CEERI, 1980-81; PROGRAMMER, ROORKEE UNIVERSITY, 1981-83; SCIENTIST B, CEERI 1983-89; SCIENTIST C, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : APPLIED RESEARCH & DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 2, ARTICLES - 2, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1, PROCESS UNDER UTILISATION - 1. PAPER IN SYMPOSIA/SEMINAR - 15.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1987; CEERI FOUNDATION DAY TEAM AWARD, 1989 K S KRISHNAN MEMORIAL AWARD, IETE (INDIA), 1989; CEERI FOUNDATION DAY AWARD. 1993

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 2, APP. RES. - 4, DESIGN - 4, CONSULTANCY - 2, OPERATION - 3, TESTING - 2, TEACHING - 2, TECH. TRANSFER - 2, COMPUTER PROC. - 3.

894

SHRI J P GUPTA; (B. AUGUST 15, 1943),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : CERTIFICATE IN RADIO ENGINEERING - I.T.I. '62.

SPECIALIZATIONS : PRINTED CIRCUITS; PHOTOGRAPHY; ELECTRONIC EQUIPMENTS MAINTENANCE.

EXPERIENCE : RADIO MECHANIC, S.L.A., J.T.A., S.T.A., SCIENTIST A AND TECHNICAL OFFICER (B), CEERI, 1964-88: TECHNICAL OFFICER (C), CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : PRINTED CIRCUITS; PHOTOGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 23, PILOT PLANT - 1.

895

DR(MRS) SHOBHA GUPTA; (B. JUNE 5, 1954),

SCIENTIST C. CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - SAUGAR '73; M.SC. PHYSICS - VIKRAM '75; PH.D. PHYSICS - INDORE '79.

SPECIALIZATIONS : X-RAY SPECTROSCOPY; SOLID STATE DEVICES.

EXPERIENCE : J.R.F., INDORE, 1976-79; S.R.F. AND SCIENTIST B, CEERI, 1979-88; SCIENTIST C, CEERI SINCE JANUARY. 1988.

PRESENT ACTIVITIES : R & D IN SOLID STATE DEVICES.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN, U.S.A., BELGIUM, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, TECH. REPORTS - 6, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 4, TESTING - 6.

896

SHRI SUBODH JOHRI; (B. JULY 1, 1955),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '74; M.SC. PHYSICS - AGRA '76.

SPECIALIZATIONS : OHMIC CONTACTS FOR MOS LSI CKT.; DESIGN OF SEMICONDUCTOR SENSORS: OPERATION/TESTING/DESIGN OF HIGH VACUUM SYSTEMS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B. CEERI, 1977-88; SCIENTIST C, CEERI SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MOS INTEGRATED CIRCUITS.

LANGUAGES : HINDI, BENGALI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 2, PATENTS TAKEN - 1.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1982, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 10, DESIGN - 2, OPERATION - 6, TESTING - 2, MAINTENANCE - 5.

897

SHRI L M JOSHI; (B. MAY 25, 1953),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - KUMAUN '76.

SPECIALIZATIONS : MICROWAVE TUBES AND TECHNIQUES; VACUUM TECHNIQUES.

EXPERIENCE : TEACHER, BIRLA HIGHER SECONDARY SCHOOL, PILANI, 1976-79; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1979-87; SCIENTIST C, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8. TECH. DEV. - 8, OPERATION - 8, TESTING - 8, TEACHING - 3.

898

SHRI S B KANADE; (B. JANUARY 8, 1949),

SCIENTIST C, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - POONA '70; M.SC. PHYSICS - POONA '74; BACHELOR OF JOURNALISM - POONA '75.

SPECIALIZATIONS : DIRECTION AND SCRIPT WRITING OF FILMS AND VIDEO PROGRAMMES; SYNCHRONISED SLIDE SOUND PRESENTATION; PREPARATION OF PUBLICITY MATERIALS.

EXPERIENCE : T.V. PRODUCER. DOORDARSHAN. BOMBAY. 1974-75; T.V. PRODUCER FOR SITE PROGRAMME. SPACE APPLICATIONS CENTRE. BOMBAY AND AHMEDABAD. 1975-76; FREE LANCE T V. PRODUCER. 1976-79; S.T.A.. NEHRU SCIENCE CENTRE. BOMBAY. 1979; SCIENTIST C. CEERI SINCE SEPTEMBER. 1979.

PRESENT ACTIVITIES : DIRECTION AND SCRIPT WRITING OF VIDEO PROGRAMMES: PREPARATION OF SYNCHRONISED SLIDE SOUND PRESENTATIONS; LIAISON AND PUBLIC RELATIONS.

LANGUAGES : MARATHI. HINDI. ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, BROCHURE - 1.

AWARDS & DISTINCTIONS : DISTINGUISHED ACHIEVEMENT AWARD FOR CONTRIBUTION TO SITE PROGRAMME, ISRO, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : DIRECTION AND SCRIPT WRITING - 13.

899

SHRI J P KANSAL; (B. JUNE 6, 1939),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.SC. - UP '57.

SPECIALIZATIONS : SCIENTIFIC GLASS BLOWING.

EXPERIENCE : APPRENTICE AND GLASS BLOWER, NPL, NEW DELHI, 1960-64; CHIEF GLASS BLOWER, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, CEERI, 1964-88; TECHNICAL OFFICER (C), CEERI SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : DEVELOPMENT AND FABRICATION OF GLASS-TO-METAL SEALS FOR SPECIAL PURPOSE VACUUM TUBES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 1, CONTRIBUTED PAPERS - 2.

AWARDS & DISTINCTIONS : JOINT SECRETARY OF EXECUTIVE COMMITTEE, CENTRAL INDIA CHAPTER OF INDIAN SOCIETY OF SCIENTIFIC GLASS BLOWERS.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 29.5

900

SHRI K L KATARIA; (B. DECEMBER 13, 1940),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : F.SC. - PANJAB '61; CERTIFICATE, RADIO MECHANIC - PANJAB '62; CERTIFICATE IN CINEMATOGRAPHY - PANJAB '62.

SPECIALIZATIONS : DESIGN & FABRICATION OF ELECTROMAGNETIC DEVICES.

EXPERIENCE : S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, CEERI, 1963-86; TECHNICAL OFFICER (C), CEERI SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : DESIGN AND FABRICATION OF TRANSFORMERS AND ELECTRONIC DEVICES.

LANGUAGES : HINDI. PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 4, REPROGRAPHY - 5, OPERATION - 4.

901

SHRI ANIL KUMAR; (B. JULY 1, 1958),

SCIENTIST C. CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE. PILANI.

QUALIFICATIONS : B.SC. - MEERUT '77; M.SC. PHYSICS - MEERUT '79; M.TECH. SOLID STATE MATERIALS - I.I.T., DELHI '82.

SPECIALIZATIONS : POWER SEMICONDUCTOR DEVICES; COMPUTER AIDED DESIGN.

EXPERIENCE : SCIENTIST B, CEERI, 1982-87; SCIENTIST C, CEERI SINCE DEC, 1987.

PRESENT ACTIVITIES : R & D IN HIGH CURRENT DEVICES.

LANGUAGES : HINDI. ENGLISH.

VISITED : CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

902

SHRI N N KUNDU; (B. FEBRUARY 19, 1945),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '77.

SPECIALIZATIONS : SOLID STATE PHYSICS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, CEERI, 1970-86; SCIENTIST C, CEERI SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN MONOLITHIC INTEGRATED CIRCUITS AND SIMULATION OF LITHOGRAPHY PROCESSES AND IMAGING TECHNOLOGY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, TECH. DEV. - 17, COMPUTER PROCESSING - 6.

903

DR H V MANJUNATH; (B. MAY 31, 1955),

SCIENTIST C, CENTRAL ELECTRONICS ENGINNERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATIONS - MYSORE '77; M.SC.(ENGG) ELECTRICAL ENGINEERING - IISC, BANGALORE '82; PH.D. ELECTRICAL ENGINEERING - IISC, BANGALORE '87.

SPECIALIZATIONS : POWER ELECTRONICS.

EXPERIENCE : PROJECT ASSISTANT, IISC, BANGALORE 1981-84; SCIENTIFIC OFFICER, IISC, BANGALORE, 1984-88; DESIGN ENGINEER, AMERICAN POWER CONVERSSION, USA, 1989-90; DESIGN ENGINEER, SEMICONDUCTORGRATY, USA, 1990-91; SCIENTIST C, CEERI SINCE DECEMBER, 1991.

PRESENT ACTIVITIES : R & D APPLIED.

LANGUAGES : KANNADA, ENGLISH, HINDI.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 4, APPLIED RESEARCH - 7, DESIGN - 1.

904

SHRI B P MATHUR; (B. FEBRUARY 3, 1959),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - JODHPUR '83; DIPLOMA IN ELECTRONICS - RAJASTHAN '78.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES.

EXPERIENCE : ENGINEER, R.C.L., JAIPUR, 1983-84; SCIENTIST B, CEERI, 1984-89; SCIENTIST C, CEERI SINCE AUGUST, 1989.

PRESENT ACTIVITIES : R & D IN SEMICONDUCTOR DEVICES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4. TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3.

905

SHRI ABDUL MOBIN; (B. APRIL 1, 1954),

SCIENTIST C, CEERI CENTRE, NEW DELHI (CEERI, PILANI).

QUALIFICATIONS : B.SC. - AWADH '76; M.SC. PHYSICS - AWADH '78; PH.D. TECHNOLOGY DELHI '90.

SPECIALIZATIONS : SPEECH RECOGNITION AND SYNTHESIS; MICROPROCESSOR BASED SYSTEMS; SIGNAL PROCESSING; MAN-MACHINE COMMUNICATION IN SPEECH MODE.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1981-88; SCIENTIST C, CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH. REPORTS - 4, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD FOR THE BEST PROJECT, 1989; MEMBER, ACOUSTICAL SOCIETY OF INDIA; MEMBER, IETE (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH, APPLIED RESEARCH, DESIGN, R & D MANAGEMENT AND COMPUTER PROC. - 13.5.

906

SHRI S S PAIKRAO; (B. MARCH 25, 1946),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRICAL - MARATHWADA '77.

SPECIALIZATIONS : COLOUR T V ENGINEERING; POLLUTION CONTROL INSTRUMENTATION; COLOUR GRAPHICS; MICROPROCESSORS AND MICROCOMPUTERS.

EXPERIENCE : J.T.A., S.T.A., S.S.A. AND SCIENTIST B, CEERI, 1977-86; SCIENTIST C, CEERI SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : R & D IN DTV & SQUID INSTRUMENTION; DESIGN & TESTING.

LANGUAGES : MARATHI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTCLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, DESIGN - 11, TECHNICAL DEV. - 11, PILOT PLANT - 1, TESTING - 11, MAINTENANCE - 1, TECH. TRANSFER - 1.

907

DR H C PANDEY; (B. JULY 8, 1950),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - A.P.S. UNIVERSITY '70; M.SC. PHYSICS - AGRA '73; D.PHIL. PHYSICS - ALLAHABAD '77.

SPECIALIZATIONS : ELECTRONICS; THICK FILM HYBRID CIRCUIT TECHNOLOGY.

EXPERIENCE : J.R.F., STATE COUNCIL OF SCIENCE & TECHNOLOGY, U.P., 1974-76; S.R.F. AND P.D.F., C.S.I.R., 1976-77; TRAINEE, S.T.A. AND H.T.A., INDIAN TELEPHONE INDUSTRIES, NAINI, 1977-84; SCIENTIST B, CEERI, 1984-88; (ALSO TRAINING IN LASER TRIMMER SYSTEM AND ITS APPLICATIONS, UNDER UNDP, U.S.A., 1986); SCIENTIST C, CEERI SINCE JUNE, 1988.

PRESENT ACTIVITIES : R & D IN THICK FILM HYBRIDS; TECHNOLOGY TRANSFER.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, R&D MGMT. - 10.

908

SHRI B D PANT; (B. JULY 5, 1955),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE , PILANI.

QUALIFICATIONS : M.SC. PHYSICS - KUMAON '77.

SPECIALIZATIONS : ELECTRONICS; FABRICATION PROCESSES OF MICROELECTRONIC DEVICES.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1980-89; SCIENTIST C, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D IN DRY ETCHING TECHNIQUES FOR MOS ICS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, CONFERENCE PAPERS - 12, TECH. REPORTS - 12, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 10, PROCESS UNDER UTILISATION - 6.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1991, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 7, DESIGN - 1, TECHNICAL DEV. - 1, R & D MANAGEMENT - 1/4, OPERATION - 1/2, TESTING - 2, MAINTENANCE - 1/2, TEACHING - 1, SURVEY OF NAT.RES - 1/2, PLANNING - 1/2, COMPUTER PROC. - 1/4.

909

SHRI KAVINDRA PANT; (B. JUNE 7, 1952),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '71; M.SC. PHYSICS - AGRA '73; P.G. DIPLOMA IN ELECTRONICS DESIGN TECHNOLOGY - I.I.SC., BANGALORE '84.

SPECIALIZATIONS :POWER ELECTRONICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1980-91; SCIENTIST C, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN POWER ELECTRONICS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, TECH. DEV. - 6.

910

SHRI P L PASRICHA; (B. DECEMBER 18, 1951),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. ENGG. ELECTRONICS & COMMUNICATION - KURUKSHETRA '75; M.S. ELECTRONIC SCIENCE - BITS, PILANI '92.

SPECIALIZATIONS : MAINTENANCE OF STANDARDS; CALIBRATION OF ELECTRONIC INSTRUMENTS; SERVICING OF ELECTRONIC INSTRUMENTS.

EXPERIENCE : RES. ASSTT., I.P.R.I., PANJAB, 1976-80; S.T.A., SCIENTIST A AND SCIENTIST B, CEERI, 1980-87; SCIENTIST C, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : SERVICING, MAINTENANCE AND CALIBRATION HOUSE STANDARDS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, TESTING - 13, MAINTENANCE - 13.

911

SHRI A K PATNEY; (B. OCTOBER 13, 1944),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PANJAB '64.

SPECIALIZATIONS : COLOUR T V ENGINEERING; COLOUR GRAPHICS.

EXPERIENCE : S.L.A., J.S.A., S.T.A., SCIENTIST A1 AND SCIENTIST B1, CEERI, 1965-86; TECHNICAL OFFICER (C), CEERI SINCE JUNE, 1986.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT AND TESTING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, DESIGN - 15, TECH. DEV. - 15, TESTING - 25, QUALITY CONTROL - 5, TECHNOLOGY TRANSFER - 5.

912

MRS S ANNA POORANI; (B. MAY 18, 1949),

SCIENTIST C, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. CHEMISTRY - MADURAI '69; A.I.C. - INSTITUTION OF CHEMISTS, INDIA '78.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY; LIAISON, INFORMATION AND PLANNING.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A., CECRI, KARAIKUDI, 1969-81; SCIENTIST A AND SCIENTIST B, CEERI, 1981-87; SCIENTIST C, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : PLANNING, TECHNOLOGY TRANSFER, DOCUMENTATION AND EDITING.

LANGUAGES : TAMIL, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 10, TECHNOLOGY TRANSFER - 10, EDITING - 15, DOCUMENTATION - 18.

913

SHRI KIRTI PRAKASH; (B. JULY 20, 1943),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '72.

SPECIALIZATIONS : CHEMICAL ANALYSIS; CHEMICAL PROCESSING AND METAL FINISHING OF ELECTRON TUBE PARTS; CHEMICAL CONTROL AND WATER CHEMISTRY OF ATOMIC POWER STATIONS.

EXPERIENCE : CHEMICAL TECHNICIAN AND S.S.A., R.A.P.P., KOTA, 1968-75; S.T.A, SCIENTIST A AND TECHNICAL OFFICER (B), CEERI, 1975-1990; TECHNICAL OFFICER (C), CEERI SINCE DECEMBER, 1990.

PRESENT ACTIVITIES : CHEMICAL PROCESSING AND METAL FINISHING OF ELECTRON TUBE PARTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 10.

914

SHRI C R K PRASAD; (B. JULY 10, 1957),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. - KAKATIYA '79; PH.D. - KAKATIYA '91.

SPECIALIZATIONS : PROCESS CONTROL INSTRUMENTATION; SOFTWARE ENGINEERING.

EXPERIENCE : SCIENTIST B, CEERI, 1982-87; SCIENTIST C, CEERI SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORT - 1, PATENTS TAKEN - 1, PATENTS FILED CURRENTLY - 1, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : CSIR TECHNOLOGY SHIELD, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 13 YEARS).

915

DR DILIP PYNE; (B. JANUARY 1, 1940),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - CALCUTTA '61; B.TECH. RADIOPHYSICS AND ELECTRONICS- CALCUTTA '65; M.TECH. ELECTRONICS - CALCUTTA '66.

SPECIALIZATIONS : SILICON TRANSISTORS; MODELLING BIPOLAR DEVICES; TUNNELING PROCESSES.

EXPERIENCE : TRAINEE, A.I.R., CALCUTTA, 1967; SSA, SCIENTIST A AND SCIENTIST B, CEERI, 1968-86; SCIENTIST C, CEERI SINCE FEBRUARY, 1980.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 2, PROCESSES DEVELOPED - 4.

AWARDS & DISTINCTIONS : CEERI AWARD FOR DEVELOPMENT OF Si TRANSISTOR, 1971.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 12, APPLIED RESEARCH - 18, DESIGN - 5, TECHNICAL DEV. - 12, CONSULTANCY - 2, R & D MANAGEMENT - 2.

916

SHRI K S RANA; (B. SEPTEMBER 2, 1943),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE, RADIO MECHANIC - I.T.I. '63.

SPECIALIZATIONS : DESIGN OF ELECTROMAGNETIC DEVICES; PCB LAYOUT DESIGN; PRODUCT ENGINEERING.

EXPERIENCE : RADIO MECHANIC, J.T.A., S.T.A., SCIENTIST A AND TECHNICAL OFFICER (B), CEERI, 1964-89; TECHNICAL OFFICER (C), CEERI SINCE JANUARY, 1989.

PRESENT ACTIVITIES : PRODUCT ENGINEERING AND BATCH PRODUCTION OF ELECTRONIC INSTRUMENTS AND EQUIPMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, PILOT PLANT - 4, PRODN. - 15.

917

DR G S TRIVIKRAMA RAO; (B. AUGUST 12, 1954),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - SARDAR PATEL '78; PH.D. PHYSICS - SARDAR PATEL '83.

SPECIALIZATIONS : MATERIALS SCIENCE; PREPARATION AND CHARACTERISATION OF MATERIALS; SOLID STATE PHYSICS; SOLID STATE DEVICES.

EXPERIENCE : J.R.F., S.R.F. AND P.D.F., C.S.I.R., 1979-84; SCIENTIST B, CEERI. 1984-89; SCIENTIST C, CEERI SINCE JULY, 1989.

PRESENT ACTIVITIES : RESEARCH IN SENSORS AND TRANSDUCERS

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, ARTICLES - 2

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 3.

918

SHRI A S VISWANADHA SARMA; (B. JULY 1, 1956),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING - SRI VENKATESWARA '79. M.TECH. MICROELECTRONICS AND SEMICONDUCTOR DEVICES - I.I.T., KHARAGPUR '81.

SPECIALIZATIONS : MICROELECTRONICS; COMPUTER AIDED TESTING; SEMICONDUCTOR DEVICE MEASUREMENTS.

EXPERIENCE : S.R.A., CARE, IITD, NEW DELHI, 1982; SCIENTIST B, CEERI, 1983-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

919

SHRI R K SETHI; (B. JANUARY 7, 1942)),

SUPERINTENDING ENGINEER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN CIVIL AND RURAL ENGINEERING - GOVT. OF INDIA '60.

SPECIALIZATIONS : DESIGN OF CLEAN/ULTRA CLEAN LABORATORY.

EXPERIENCE : JUNIOR ENGINEER, C.S.I.R., NEW DELHI, 1960-61; JUNIOR ENGINEER, N.E.E.R.I., NAGPUR, 1961-63; CIVIL ENGINEER AND EXECUTIVE ENGINEER, CEERI, 1963-91; SUPERINTENDING ENGINEER (C), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : PLANNING, DESIGN AND EXECUTION OF NEW WORKS & MAINTENANCE OF OLD BUILDINGS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3, ARTICLES - 1.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1989; CEERI FOUNDATION DAY AWARD, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TECHNICAL DEV., CONSTRUCTION, MAINTENANCE AND PLANNING - (TOTAL: 33 YEARS).

920

SHRI C H SHAH; (B. JANUARY 11, 1947),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - GUJARAT '68; M.SC. PHYSICS - GUJARAT '71; M.S. ELECTRONIC SCIENCES - BITS, PILANI '93.

SPECIALIZATIONS : T V ENGINEERING; DIGITAL SIGNAL PROCESSING; MICROWAVE ENGINEERING.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1972-88; SCIENTIST C, CEERI SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D; MICROWAVE INTRUSION DETECTION SYSTEM.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 4, PROCESSES DEVELOPED - 4, PROCESS UNDER UTILISATION - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, DESIGN - 15, TECH. DEV. - 5, TESTING - 5, TECH. TRANSFER - 2.

921

DR A K SHARMA; (B. OCTOBER 19, 1950),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - JODHPUR '71; M.SC. PHYSICS - JODHPUR '74; PH.D. PHYSICS - JODHPUR '84; CERTIFICATE IN FRENCH - JODHPUR '77.

SPECIALIZATIONS : SOLID STATE PHYSICS; THIN FILMS; VACUUM TECHNIQUES; TRANSMITTING TUBES TECHNOLOGY; CATHODES; MICROWAVE TUBES.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1980-87; SCIENTIST C, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 3, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, TECH. DEV. - 13.

922

SHRI G K SHARMA; (B. AUGUST 9, 1958),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '78; P.G. DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING - ROORKEE '80; M.TECH. ELECTRONICS AND COMMUNICATION - ROORKEE '81.

SPECIALIZATIONS : ELECTRONICS; T V TECHNOLOGY; COMPUTER SCIENCE.

EXPERIENCE : POOL OFFICER (C.S.I.R), 1981-84; SCIENTIST B, CEERI, 1984-89; SCIENTIST C, CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : R & D IN COMPUTER GRAPHICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1, REVIEW PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5. PRODUCTS DEVELOPMENT - 2.

923

SHRI K S SHARMA; (B. JANUARY 21, 1941),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. MATHEMATICS - RAJASTHAN '63.

SPECIALIZATIONS : POWER CONTROL AND INVERTERS USING THYRISTORS.

EXPERIENCE : GRADUATE APPRENTICE, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, CEERI, 1964-83; TECHNICAL OFFICER (C), CEERI SINCE DECEMBER, 1983; (ALSO VISITED CZECHOSLOVAKIA UNDER EXCHANGE PROGRAMME, 1985).

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : TECH. REPORTS - 5, PROCESSES DEVELOPED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, DESIGN - 17, TECH. DEV. - 17.

924

SHRI M K SHARMA; (B. JUNE 9, 1952),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

925

SHRI M P SHARMA; (B. JULY 17, 1943),

MECHANICAL ENGINEER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MECHINIST - I.T.I., JAIPUR '68; MACHINE SHOP ENGINEERING - BIET, BOMBAY '73; N.C.E.S. - NATIONAL PRODUCTIVITY COUNCIL '74.

SPECIALIZATIONS : HEAT TREATMENT.

EXPERIENCE : MECHANIC, PRE-MECH., J.M.A., S.M.A., MECHANICAL ENGINEER (A) AND MECHANICAL ENGINEER (B), CEERI, 1966-91; MECHANICAL ENGINEER (C) CEERI SINCE OCTOBER, 1991.

PRESENT ACTIVITIES : SUPERVISION TOOL ROOM.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1980, 1987, 1992.

926

SHRI S S SHEKHAWAT; (B. JUNE 15, 1940),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '64; M.SC. PHYSICS - POONA '87.

SPECIALIZATIONS : SEMICONDUCTOR DEVICES; DIFFUSION TECHNIQUES; PROCESS DEVELOPMENT.

EXPERIENCE : J.L.A., J.S.A., S.T.A. AND SCIENTIST A, CEERI, 1967-80; TECHNICAL OFFICER (B), CEERI, 1980-86; (ALSO TRAINING IN DIFFUSION TECHNIQUES, UK, 1978); SCIENTIST C, CEERI SINCE DECEMBER, 1986

PRESENT ACTIVITIES : DEVELOPMENT OF SEMICONDUCTOR DEVICES, TRANSISTORS AND DIFFUSION TECHNIQUES.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECHNICAL REPORTS - 1, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., DESIGN, TECH. DEV., MAINTENANCE (TOTAL : 20 YEARS).

927

MRS NIRMALA SHENOY; (B. JULY 30, 1956),

SCIENTIST C, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE. PILANI).

QUALIFICATIONS : B.E. ELECTRONICS AND TELECOMMUNICATION - MADRAS '78; M.E. APPLIED ELECTRONICS - MADRAS '80.

SPECIALIZATIONS : APPLIED ELECTRONICS.

EXPERIENCE : SENIOR ENGINEER, TECHNO LAB. INSTRUMENTS, MADRAS, 1980; PROJECT ASSOCIATE, IIT, MADRAS, 1981; SCIENTIST B, CEERI, 1981-86; SCIENTIST C, CEERI SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : R & D ON MICROPROCESSOR BASED SYSTEMS.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, R&D MGMT. - 6.

928

SHRI MOHINDER PAL SINGH; (B. JANUARY 1, 1952),

SCIENTIST C, CEERI CENTRE, NEW DELHI (C.E.E.R.I., PILANI).

QUALIFICATIONS : B.SC. - BHOPAL '72; GRAD. I.E.T.E. ELECTRONICS - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '77.

SPECIALIZATIONS : ANTENNA AND WAVE PROPAGATION; ELECTRONIC MEASUREMENTS; AUDIOVISUAL AND CONTROL CIRCUITS; MUSEUM ELECTRONICS.

EXPERIENCE : GRADUATE TRAINEE, S.L.A., S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1975-87; SCIENTIST C, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DESIGN, WIRING AND TESTING OF CIRCUITS.

LANGUAGES : PUNJABI. HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8. DESIGN - 8. TECH. DEV. - 8

929

SHRI MULAYAM SINGH; (B. APRIL 2, 1955),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - KANPUR '76; M.SC. PHYSICS - KANPUR '78; M.TECH. SOLID STATE MATERIALS - I.I.T., DELHI '81.

SPECIALIZATIONS : SOLID STATE MATERIALS.

EXPERIENCE : S.R.F., IIT, DELHI, 1981-82; SCIENTIST B, CEERI, 1983-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D IN SEMICONDUCTOR DEVICES, ELECTRON BEAM LITHOGRAPHY AND SCANNING ELECTRON MICROSCOPY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

930

SHRI NARENDRA BAHADUR SINGH; (B. NOVEMBER 10, 1957),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. P.M.C. - ALLAHABAD '78; B.TECH. ELECTRONICS & TELECOM - J.K. INSTITUTE, ALLAHABAD '81; M.TECH. I.E.C. - I.I.T., DELHI '90.

SPECIALIZATIONS : COMPUTER SYSTEMS MANAGEMENT; SIMULATION AND MODELLING OF SEMICONDUCTOR DEVICES; NEURAL AND FUZZY SYSTEMS; RDBMS.

EXPERIENCE : ASSOCIATE COMPUTER ENGINEER (H.W.), M/S COMPUTRONICS INDIA LTD., 1982; SCIENTIST B, CEERI, 1983-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : SIMULATION.

LANGUAGES : HINDI, SANSKRIT, BHOJPURI, BENGALI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 1, COMPUTER PROC. - 8.

931

SHRI RAJ SINGH; (B. FEBRUARY 20, 1959),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE. PILANI.

QUALIFICATIONS : B.E.(HONS) MECHANICAL ENGINEERING - PILANI '81; M.TECH. COMPUTER SCIENCE & ENGINEERING - I.I.T., BOMBAY '85.

SPECIALIZATIONS : COMPUTER SCIENCE; VLSI CAD TOOLS; MARKETING & SALES; MECHANICAL ENGINEERING.

EXPERIENCE : ASSTT. ENGINEER(R&D), HINDALCO, RENUKOOT 1981-82; SYS. EXE., DIGITAL PERFORMANCE, 1982-83; MARKETING EXECUTIVE, SENIOR MARKETING EXE. AN AREA SALES MANAGER, HINDITRON COMPUTERS, NEW DELHI, 1983-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : SOFTWARE DEVELOPMENT & COMPUTER SYSTEM MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3, SOFTWARE DEVELOPED - 5, SOFTWARE UNDER UTILISATION - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, APPLIED RESEARCH - 2, DESIGN - 1, SALES MARKETING - 4, SOFTWARE DEVELOPMENT - 2.

932

SHRI V V PRASAD SINGH; (B. JANUARY 25, 1956),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING - KAKATIYA '79; M.TECH. MICROWAVE ENGINEERING - BHU '81.

SPECIALIZATIONS : MICROWAVE ENGINEERING; VACUUM AND TUBES TECHNOLOGY; DESIGN; DIGITAL SIGNAL PROCESSING.

EXPERIENCE : SENIOR RESEARCH ASSISTANT AND JUNIOR SCIENTIST, BHU, VARANASI, 1982-83; SCIENTIST B, CEERI, 1983-88; SCIENTIST C, CEERI SINCE MAY, 1988.

PRESENT ACTIVITIES : R & D IN MICROWAVE TUBES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1. TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN - 5.

933

SHRI M C SONANIA; (B. JANUARY 20, 1948),

ELECTRICAL & MECHANICAL ENGINEER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRICAL - BITS '70.

SPECIALIZATIONS : MAINTENANCE OF ELECTRICAL INSTALLATIONS.

EXPERIENCE : ASSISTANT ENGINEER, M/S DIGVIJAYA WOOLLEN MILLS, JAMNAGAR, 1970-75; ELECTRICAL AND MECHANICAL ENGINEER (A) AND ELECTRICAL AND MECHANICAL ENGINEER (B), CEERI, 1975-86; ELECTRICAL AND MECHANICAL ENGINEER (C), CEERI SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : ENGINEERING SERVICES INCLUDING MAINTENANCE.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 13, MAINTENANCE - 16, PLANNING - 16.

934

SHRI R SRIDHAR; (B. SEPTEMBER 29, 1955),

SCIENTIST C, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. PHYSICS - MADRAS '75; M.SC. (APP. SCIENCE) ELECTRONICS - MADRAS '78.

SPECIALIZATIONS : INSTRUMENTATION.

EXPERIENCE : J.R.F., CEERI MADRAS, 1979-80; J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1980-88; SCIENTIST C, CEERI SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DEVELOPMENT OF QUALITY CONTROL INSTRUMENTATION FOR PULP AND PAPER INDUSTRY.

LANGUAGES : TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 1, PATENTS TAKEN - 1.

AWARDS & DISTINCTIONS : NRDC INDEPENDENCE DAY INVENTION AWARD, 1984.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, DESIGN - 6, TECH. DEV. - 6.

935

DR ASHOK SRIVASTAVA; (B. JULY 13, 1948),

SCIENTIST C, CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. - LUCKNOW '66; B.SC.(HONS.) PHYSICS - LUCKNOW '67; M.SC. PHYSICS - LUCKNOW '68; M.SC.(TECH.) APP. PHYSICS - I.I.T., DELHI '70; PH.D. ELECTRONICS - I.I.T., DELHI '75.

SPECIALIZATIONS : PHYSICAL AND ELECTRICAL BIPOLAR AND MOS DEVICE MODELLING; PLANAR SILICON SEMICONDUCTOR DEVICES AND INTEGRATED CIRCUITS; HIGH SPEED SWITCHING CIRCUITS; COMPUTER AIDED DESIGN; MOS, LSI AND VLSI TECHNOLOGY DEVELOPMENT.

EXPERIENCE : LECTURER, BITS, PILANI, 1975; SCIENTIST B, CEERI, 1975-80; (ALSO TRAINING IN ICS, VISITING PROFESSOR AND UNESCO FELLOW, USA, 1979-80); SCIENTIST C, CEERI SINCE JULY, 1980.

PRESENT ACTIVITIES : R & D ON MOS, LSI/VLSI DESIGN AND TECHNOLOGY DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, DESIGN - 16, TECH. DEV. - 16, TEACHING - 2.

936

DR(MRS) SWARAJ SRIVASTAVA; (B. AUGUST 15, 1947),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. PHYSICS - I.I.T., KANPUR '68; PH.D. PHYSICS - BITS, PILANI '79.

SPECIALIZATIONS : SOFTWARE DEVELOPMENT; CIRCUIT DESIGN; MOS MODELLING.

EXPERIENCE : LECTURER, CHRIST CHURCH COLLEGE, KANPUR, 1968-69; ASSISTANT LECTURER AND PART TIME LECTURER, BITS, PILANI, 1970-77; SCIENTIST B, CEERI 1983-88; SCIENTIST C, CEERI SINCE JANUARY, 1988.

PRESENT ACTIVITIES : RESEARCH; COMPUTER PROCESSING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 7, DESIGN - 2, TEACHING - 9.

937

DR P SURYANARAYANA; (B. JANUARY 1, 1955),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. ENGG. PHYSICS (INSTRUMENTATION) - OSMANIA '79; D.I.I.T. INDUSTRIAL PHYSICS - I.I.T., KHARAGPUR '81; PH.D. SEMICONDUCTOR MATERIALS - I.I.T., KHARAGPUR '87.

SPECIALIZATIONS : MICROELECTRONICS; MATERIALS CHARACTERISATION; SEMICONDUCTOR MATERIALS AND DEVICES.

EXPERIENCE : JRF, DEPT. OF ATOMIC ENERGY, 1982-84; SCIENTIST B, CEERI, 1984-89; SCIENTSIT C, CEERI SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH IN MICROELECTRONICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 4.

938

DR NARENDRA KUMAR SWAMI; (B. JULY 31, 1953),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - BITS, PILANI '72; M.SC. PHYSICS - BITS, PILANI '74; PH.D. SOLAR CELLS - BITS, PILANI '80.

SPECIALIZATIONS : SOLAR CELLS; POWER DEVICES; COMMUNICATION SYSTEM PLANNING; INTEGRATED ANTENNAS.

EXPERIENCE : JRF, BITS, PILANI, 1974-80; POST DOCTORAL FELLOW AND SCIENTIST B, CEERI, 1980-88; SCIENTIST C, CEERI SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN COMPUTER AIDED DESIGN OF SOLID STATE DEVICES; IMPROVEMENT OF MINORITY CARRIER LIFE TIME UNDER HIGH INJECTION CONDITIONS; PHOTOMASKING OF SEMICONDUCTOR DEVICES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 7, DESIGN - 7, TESTING - 5, MAINTENANCE - 9, TEACHING - 5, PLANNING - 6.

939

MISS VEER PRABHA TATIA; (B. SEPTEMBER 19, 1948),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - JODHPUR '69; M.SC. PHYSICS - JODHPUR '72; POSTGRADUATE DIPLOMA IN ELECTRONICS DESIGN AND TECHNOLOGY - I.I.SC., BANGALORE '83.

SPECIALIZATIONS : ELECTRONIC SYSTEMS DESIGN; SOFTWARE DEVELOPMENT.

EXPERIENCE : GRAD. APP., B.D.L., HYDERABAD, 1977-78; ASSISTANT ENGINEER, RICCO, JAIPUR, 1978; S.S.A., SCIENTIST A AND SCIENTIST B, CEERI, 1978-91; SCIENTIST C, CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN ELECTRONIC SYSTEM DESIGN & SOFTWARE ENGINEERING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 7, S/W COPYRIGHT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 16 YEARS).

940

SHRI B D TYAGI; (B. MARCH 10, 1947),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '67; M.SC. PHYSICS - MEERUT '70.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : GRADUATE TRAINEE, J.S.A., S.S.A. AND SCIENTIST B, CEERI, 1970-86; SCIENTIST C, CEERI SINCE MARCH, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 4, PATENTS TAKEN - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17.

941

SHRI V UPENDRANATH; (B. AUGUST 30, 1958),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - TIRUPATI '78; M.SC. (TECH.) ELECTRONICS - KAKATIYA '81.

SPECIALIZATIONS : PC BASED SYSTEMS; PROCESS CONTROL INSTRUMENTATION; MICROPROCESSORS; DIGITAL TECHNIQUES.

EXPERIENCE : R & D ENGINEER, M/S DECAN ENGINEERS, HYDERABAD, 1982-83; SCIENTIST B, CEERI, 1983-90; SCIENTIST C, CEERI SINCE JANUARY, 1990.

PRESENT ACTIVITIES : PC BASED CONTROL SYSTEMS FOR SUGAR INDUSTRY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH.REPORTS - 3, PATENTS FILED CURRENTLY - 2, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD, 1984.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 12.

942

DR GURDEEP SINGH VIRDI; (B. SEPTEMBER 4, 1948),

SCIENTIST C, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - DELHI '70; M.SC. PHYSICS - AGRA '74; M.TECH. APPLIED OPTICS - I.I.T., DELHI '76; P.G.COURSE IN VACUUM TECHNOLOGY - BOMBAY '78; PH.D. ION-IMPLANTATION - KURUKSHETRA '84.

SPECIALIZATIONS : ION IMPLANTATION; INSTRUMENTATION; SOLID STATE DEVICES; VACUUM TECHNOLOGY.

EXPERIENCE : S.R.F. AND RESEARCH ASSOCIATE, KURUKSHETRA UNIVERSITY, 1976-83; SCIENTIST B, CEERI, 1983-88; SCIENTIST C, CEERI SINCE MARCH, 1988.

PRESENT ACTIVITIES : STUDY OF ION-IMPLANTATION SAMPLES RELATED TO VLSI, OPERATION AND MAINTENANCE OF ION-IMPLANTATION MACHINE.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 4, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 7, DESIGN - 7, TECH. DEV. - 7, OPERATION - 7.

943

SHRI K K WADHAWAN; (B. DECEMBER 18, 1938),

TECHNICAL OFFICER (C), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA, RADIO MECHANIC - DELHI '58.

SPECIALIZATIONS : BATCH PRODUCTION OF ELECTRONIC EQUIPMENT.

EXPERIENCE : OPERATOR AND RADIO MECHANIC, NPL, NEW DELHI, 1960-65; J.T.A., S.T.A SCIENTIST A AND TECHNICAL OFFICER (B), CEERI, 1965-89; TECHNICAL OFFICER (C), CEERI SINCE JANUARY, 1989.

PRESENT ACTIVITIES : BATCH PRODUCTION OF ELECTRONIC EQUIPMENTS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODN. - 20.

944

MRS ALPANA AGARWAL; (B. APRIL 14, 1965),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MDU, ROHTAK '84; M.SC. - I.I.T., DELHI '86; M.TECH., - I.I.T., DELHI '87.

SPECIALIZATIONS : MICROELECTRONICS; VLSI DESIGN; SOLID STATE MATERIALS.

EXPERIENCE : SCIENTIST B, CEERI SINCE MARCH, 1988.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, APPLIED RESEARCH - 2.5, TESTING - .5, TEACHING - 1, DOCUMENTATION - .5

945

SHRI R N AGNIHOTRI; (B. JANUARY 1, 1946),

INDUSTRIAL LIAISON OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.A. - MEERUT '74; B. LIB. SC. - JIWAJI '76; B.SC. - AGRA '78; M. LIB. SC.- ALIGARH '83.

SPECIALIZATIONS : LIBRARY SCIENCE; INFORMATION SCIENCE; EDITING; LIAISON; PUBLIC RELATIONS.

EXPERIENCE : LIBRARY ASSTT., AGRA COLLEGE, AGRA, 1969-71; CATALOGUER, CEERI, 1971-78; S.T.A. AND INFORMATION OFFICER (A), I.I.P., DEHRADUN, 1978-85; INDUSTRIAL LIAISON OFFICER (B), CEERI SINCE JULY, 1985.

PRESENT ACTIVITIES : INDUSTRIAL LIAISON.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 2, EDITING - 8, DOCUMENTATION - 15, INDUSTRIAL LIAISON - 2.

946

DR MIRJI SANMATI ANNARAY; (B. MAY 13, 1962),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

947

SHRI N RAMESH BABU; (B. JANUARY 17, 1963),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC.(TECH) ELECTRONICS - WARANGAL '87.

SPECIALIZATIONS : FUZZY LOGIC; NEURAL NETWORKS; MICROPROCESSOR BASED SYSTEMS DESIGN; COMPUTER NETWORKS.

EXPERIENCE : R&D ENGINEER, NITAL DATA SYSTEMS PVT. LTD. 1987-87; PRODUCATION ENGINEER, OMC COMPUTERS LTD., 1988-89; SCIENTIST B, CEERI SINCE APRIL, 1989

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF COMMUNICATION CONTROLLERS BASED ON IEEE 802.4 STD; DESIGN & DEVELOPMENT OF NEURO-FUZZY CONTROLLERS

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH REPORTS - 1, PATENTS TAKEN - 1, PROCESS DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, APPLIED RESEARCH - 3, R&D MANAGEMENT - 1.5.

948

SHRI V SARAT BABU; (B. JUNE 30, 1967),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '87; M.SC.(TECH) ELECTRONICS - WARANGAL '91.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS DEVELOPMENT; SYSTEM/APPLICATION SOFTWARE DEVELOPMENT; COMPUTER NETWORKS; ELECTRONIC CIRCUIT DESIGN.

EXPERIENCE : C.S. EXECUTIVE, ICIM, 1990-91; SCIENTIST B, CEERI SINCE NOVEMBER, 1991.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PROCESS DEVELOPED - 500VA UPS; PROCESS UNDER UTILISATION - 500 VA UPS.

AWARDS & DISTINCTIONS : DR G N ACHARYA RUNNING TROPHY, CEERI, 1991-92.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2, MAINTENANCE - 1.

949

SHRI M S BADRINATH; (B. DECEMBER 17, 1950),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MYSORE '70; B.G.L. GENERAL LAW - MYSORE '74; DIPLOMA RUSSIAN - MYSORE '69; PRAGYA HINDI - MINISTRY OF EXTERNAL AFFAIRS '86.

SPECIALIZATIONS : MANAGEMENT OF INFORMATION SERVICES; SOFTWARE DEVELOPMENT; RESEARCH COORDINATION & PLANNING.

EXPERIENCE : S.L.A. AND J.T.A., N.A.L., 1973-81; S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1981-88; TECHNICAL OFFICER (B), CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : MANAGEMENT INFORMATION SYSTEM PLANNING.

LANGUAGES : KANNADA, HINDI, ENGLISH, BENGALI, SANSKRIT, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLE - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, PLANNING - 11, COMPUTER PROC. - 7.

950

SHRI A K BAGCHI; (B. APRIL 2, 1948),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : L.P.G.A. PHOTOGRAPHY - W. BENGAL '69; MVS COMPUTER APPLICATION - BITS, PILANI '91.

SPECIALIZATIONS : PHOTOMASK MAKING; MICROPHOTOGRAPHY; PHOTOMICROGRAPHY; PHOTOGRAPHY; COMPUTER APPLICATIONS.

EXPERIENCE : PHOTOGRAPHIC ARTIST, J.T.A. AND S.T.A., CEERI, 1971-88; (ALSO TRAINING ON COMPUTER CONTROLLED PHOTOMASK FABRICATION SYSTEM, U.S.A., 1980); TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1988.

PRESENT ACTIVITIES : PHOTOMASK FABRICATION; MICROIMAGING.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 2, PAPERS PRESENTED - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TECH. DEV. - 10, OPERATION - 17, QUALITY CONTROL - 7, MAINTENANCE - 15, PRODUCTION - 10, REPROGRAPHY - 5, COMPUTER PROC. - 3.

951

MRS KANTA BHALLA; (B. NOVEMBER 2, 1939),

TECHNICAL OFFICER (B), CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.A. - DELHI '60.

SPECIALIZATIONS : LIAISON; PUBLIC RELATIONS.

EXPERIENCE : RECEPTIONIST, S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1968-89; (ALSO VISITED BULGARIA TO ORGANISE SCIENCE AND TECHNOLOGY EXHIBITION, 1975) TECHNICAL OFFICER (B), CEERI SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : INDUSTRIAL LIAISON AND PUBLIC RELATIONS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : BULGARIA.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 8, LIAISON AND PUBLIC RELATIONS - 9.

952

SHRI S C BOSE; (B. APRIL 18, 1959),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

953

SHRI KRISHAN CHAND; (B. SEPTEMBER 20, 1937),

MECHANICAL ENGINEER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN THEORY AND PRACTICAL - I.T.I., PATIALA '58.

SPECIALIZATIONS : PRESS TOOL TECHNOLOGY; MACHINE SHOP ENGINEERING

EXPERIENCE : MECHANIC, PRE. MECH., SUP. MECH., J.M.A., S.M.A. AND MECHNICAL ENGINEER (A), CEERI. 1960-88; MECHANICAL ENGINEER (B), CEERI SINCE JUNE, 1988.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT AND SUPERVISION OF MECHANICAL ASSEMBLIES & MACHINES.

LANGUAGES : PUNJABI, HINDI, ENGLISH, SANSKRIT, URDU.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1985, 1989, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 32.

954

SHRI SURESH CHANDRA; (B. SEPTEMBER 30, 1950),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - POONA '85.

SPECIALIZATIONS : MICROELECTRONICS.

EXPERIENCE : SALES REPRESENTATIVE, M/S K. LAL BHAKRI, 1971-77; S.L.A., J.T.A. AND S.T.A. CEERI, 1977-89; SCIENTIST B, CEERI SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : APPLIED RESEARCH; MICROELECTRONICS.

LANGUAGES : HINDI, ENGLISH, PUNJABI, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 14, TESTING - 1, SALES MARKETING - 6.

955

SHRI D S CHAWLA; (B. DECEMBER 20, 1947),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : 3 YEARS NATIONAL APPRENTICESHIP COURSE IN REFRIGERATION AND AIR CONDITIONING - DELHI ADMINISTRATION '67.

SPECIALIZATIONS : REFRIGERATION; AIR CONDITIONING; CLEAN ROOMS MAINTENANCE.

EXPERIENCE : FOREMAN, PUBLIC HEALTH DEPT., ROHTAK, 1968-69; J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1969-84; TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1984.

PRESENT ACTIVITIES : MAINTENANCE AND OPERATION OF REFRIGERATION AND AIR CONDITIONING AND CLEAN ROOMS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, OPERATION - 20, MAINTENANCE - 20.

956

SHRI A K DHAMIJA; (B. AUGUST 7, 1945),

TECHNICAL OFFICER (B), CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN RADIO AND T.V. - I.T.I., DELHI '72.

SPECIALIZATIONS : AUDIOVISUAL SOFTWARE AND HARDWARE; MUSEUM ELECTRONICS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1970-88; (ALSO VISITED U.S.S.R. TO ORGANISE SCIENCE AND TECHNOLOGY EXHIBITION IN 1985 AND 1987); TECHNICAL OFFICER (B), CEERI SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : DEVELOPMENT AND TESTING OF AUDIOVISUAL EQUIPMENTS AND PROGRAMMES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 9, TECH. DEV. - 9, OPERATION - 9, TESTING - 17, MAINTENANCE - 9, SOFTWARE PREPARATION - 9.

957

SHRI DEVI CHARAN DHUBKARIYA; (B. APRIL 10, 1966),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS & TELECOMMUNICATION - GWALIOR '90.

SPECIALIZATIONS : ELECTRONIICS & TELECOMMUNICATION; MICROWAVE TUBES; VACUUM TECHNOLOGY.

EXPERIENCE : SCIENTIST B, CEERI SINCE JANUARY, 1992.

PRESENT ACTIVITIES : R & D OF 2-MW S-BAND PULSED MAGNETRON.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 2 YEARS).

958

SHRI A K DUBE; (B. JULY 11, 1948),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - BITS, PILANI '69.

EXPERIENCE : S.L.A., J.T.A., S.T.A., J.T.O. AND TECHNICAL OFFICER (A), CEERI, 1969-86; TECHNICAL OFFICER (B), CEERI SINCE NOVEMBER, 1988.

959

SHRI AJAY KUMAR DWIVEDI; (B. JULY 1, 1956),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - KANPUR '75; B.TECH. ELECTRO & TELECOM - ALLAHABAD '83; M.E. ELECTRO & TELECOM - ROORKEE '89.

SPECIALIZATIONS : MICROPROCESSORS & COMPUTER HARDWARE; SOLID STATE ELECTRONICS.

EXPERIENCE : LECTURER, POONA UNIV., 1988-91; SCIENTIST B, CEERI SINCE AUGUST, 1991.

PRESENT ACTIVITIES : ELECTRONICS SYSTEMS & COMPUTERS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 3, APPLIED RESEARCH - 1.

960

SHRI M GANESAN; (B. MAY 10, 1958),

SCIENTIST B, CEERI CENTRE, NEW DELHI (CEERI, PILANI).

QUALIFICATIONS : B.SC. - MADRAS '79; M.SC., PHYSICS - MADRAS '82.

SPECIALIZATIONS : COMPUTER SCIENCE; SPEECH PROCESSING, ACOUSTICS AND PATTERN RECOGNITION.

EXPERIENCE : J.R.F. AND S.R.F., CEERI, 1982-86; SCIENTIST B, CEERI SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : SOFTWARE DEVELOPMENT FOR SPEECH PROCESSING AND SYNTHESIS.

LANGUAGES : TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5.

961

SHRI A GOPAL; (B. JUNE 5, 1962),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

962

DR RAM GOPAL; (B. APRIL 8, 1954),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - KANPUR '76; PH.D. SOLAR CELLS - B.H.U. '86.

SPECIALIZATIONS : HIGH FREQUENCY DEVICES; RADIATION DAMAGE ON SI MATERIAL & DEVICES; SOLID STATE DEVICES FABRICATION AND STUDY; MOS DEVICES.

EXPERIENCE : SCIENTIST B, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PACKAGING; MM-WAVE DEVICES AND BONDING OF MM-WAVE DEVICES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, PATENTS TAKEN - 2.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD FOR BEST PROJECT, 1991.

963

SHRI BIJOY KUMAR HALDAR; (B. JANUARY 12, 1959),

ELECTRICAL ENGINEER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : D.E.E. ELECT. ENGG. - STATE COUNCIL FOR ENGG. & TECHNICAL EDUCATION - WEST BENGAL '81.

SPECIALIZATIONS : ELECTRICAL ENGINEERING.

EXPERIENCE : ELECTRICAL ENGINEER (B), CEERI SINCE JANUARY, 1993.

PRESENT ACTIVITIES : MAINTENANCE WORK.

LANGUAGES : BENGALI, HINDI, KANNADA, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 11.

964

SHRI LALIT JAIN; (B. OCTOBER 1, 1948),

TECHNICAL OFFICER (B), CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : CERTIFICATE IN RADIO AND T.V. - I.T.I., DELHI '68; B.A. - DELHI '72.

SPECIALIZATIONS : PRINTED CIRCUIT BOARD DESIGN.

EXPERIENCE : RADIO MECHANIC, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1970-89; TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : PRINTED CIRCUIT BOARD DESIGN & DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, TECH. DEV. - 2, TESTING - 15.

965

SHRI SUNIL KAPOOR; (B. JUNE 30, 1963),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '85; M.TECH. MICROWAVE ELECTRONICS - DELHI '87.

SPECIALIZATIONS : ELECTRONICS; MICROWAVE ENGINEERING; COMPUTER AIDED DESIGN.

EXPERIENCE : SCIENTIST B, CEERI SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN TRAVELLING WAVE TUBES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1.

966

SHRI A KARTHIGEYAN; (B. MAY 20, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

967

SHRI M V KARTIKEYAN; (B. AUGUST 28, 1961),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '81; M.SC. PHYSICS - BHU '85; PH.D. ELECTRONICS ENGG. - BHU '92.

SPECIALIZATIONS : MICROWAVE TECHNOLOGY; CAD OF MICROWAVE TUBES.

EXPERIENCE : SCIENTIST B, CEERI SINCE JANUARY, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4, APPLIED RESEARCH - 7, DESIGN - 4, TECHNICAL DEV. - 4, OPERATION - 4, TESTING - 4, COMPUTER PROC. - 4.

968

SHRI K S KASUMBIWAL; (B. OCTOBER 18, 1938),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN DRAUGHTSMANSHIP - I.T.I., JAIPUR '58.

EXPERIENCE : TRACER, CPHERI (NEERI), 1961-66; JR. D/MAN AND SR. D/MAN, CHPERI (NEERI), 1966-80; SR. D/MAN, CMRS, DHANBAD, 1980-89; SR. D/MAN, S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1989; TECHNICAL OFFICER (B), CEERI SINCE FEBRUARY, 1989.

LANGUAGES : HINDI, ENGLISH.

969

DR R S KHAIRNAR; (B. DECEMBER 8, 1958),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MARATHWADA '78; M.SC. PHYSICS - MARATHWADA '80; M.PHIL. PHYSICS - POONA '84; PH.D. PHYSICS - POONA '89.

SPECIALIZATIONS : FIELD EMISSION/ELECTRON EMITTERS; VACUUM TECHNIQUES; SURFACE SCIENCE(PHYSICS); MATERIALS SCIENCE.

EXPERIENCE : LECTURER, MILIND SCIENCE COLLEGE, 1980-81; TECHNICAL ASSISTANT, RESEARCH ASSISTANT AND RESEARCH ASSOCIATE, UNIVERSITY OF POONA, 1981-89; TUTOR, SCHOOL OF ELECTRONIC SCIENCE, POONA, 1989-90; SCIENTIST B, CEERI SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : DEVELOPMENT OF HIGH POWER MICROWAVE TUBES, DISPENSER CATHODES, BONDED GRID AND SHADOW GRID ELECTRON EMITTERS.

LANGUAGES : MARATHI, HINDI, SANSKRIT, ENGLISH.

VISITED : GERMANY, ENGLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 12.

970

SHRI P K KHANNA; (B. JUNE 30, 1965),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - LUCKNOW '81; M.SC. PHYSICS - LUCKNOW '83; PH.D. PHYSICS - RAJASTHAN '89; HIGHER LEVEL DIPLOMA SCIENCE & TECHNOLOGY - PILANI '90.

EXPERIENCE : J.R.F., S.R.F., CEERI, 1986-88; SCIENTIST B, CEERI SINCE APRIL, 1988.

971

SHRI NAND KISHORE; (B. JUNE 9, 1946),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - RAJASTHAN '69.

SPECIALIZATIONS : ELECTRICAL ENGINEERING; ELECTRONIC CIRCUITRY AND DESIGN; AUDIOVISUAL SYSTEMS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1969-89; TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : ELECTRONIC DEVICES; AUDIOVISUAL SYSTEMS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 2, PROCESSES DEV. - 15, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18.

972

SHRI SRINIVAS KOTA; (B. NOVEMBER 3, 1960),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. (TECH.) ELECTRONICS - KAKATIYA '83.

SPECIALIZATIONS : MICROPROCESSOR AND ITS APPLICATIONS; MICROPROCESSOR BASED CONTROL INSTRUMENTATION; ANALOG AND DIGITAL CIRCUITS; SOFTWARE DEVELOPMENT.

EXPERIENCE : SCIENTIST B, CEERI SINCE JULY, 1984.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF MICROPROCESSOR BASED CONTROL SYSTEM.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, DESIGN - 3, TESTING - 3, TECHNOLOGY TRANSFER - 1, DOCUMENTATION - 1, COMPUTER PROCESSING - 3.

973

SHRI V KRIPESH; (B. JUNE 29, 1965),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

974

SHRI SANJEEV KUMAR; (B. DECEMBER 20, 1963),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

975

SHRI SATISH KUMAR; (B. MARCH 5, 1951),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - PILANI '72; M.SC. SOLID STATE PHYSICS & ELECTRONICS - JODHPUR '82; M.E. MICROELETRONICS PHYSICS OF SEMICONDUCTOR - PILANI '92.

SPECIALIZATIONS : INTEGRATED CIRCUIT FABRICATION TECHNOLOGY; METALLIZATION DEVICES; VACUUM TECHNOLOGY; HIGH VACUUM SYSTEMS.

EXPERIENCE : GRAD. APPT., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1973-88; TECHNICAL OFFICER (B), CEERI SINCE JUNE, 1988.

PRESENT ACTIVITIES : IC FABRICATION TECHNOLOGY & METALLIZATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 7, PROCESS DEVELOPED - 3.

AWARDS & DISTINCTIONS : CEERI INDIVIDUAL MERIT AWARD, 1987; CEERI AWARD, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 8, OPERATION(VAC. SYSTEM) - 16, TESTING - 2, TECHNICAL DEV. - 8, MAINTENANCE OF VAC. SYSTEM - 16.

976

SHRI MRINMAY KUNDU; (B. DECEMBER 30, 1962),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - CALCUTTA '83; M.SC. PHYSICS - CALCUTTA '86.

SPECIALIZATIONS : ELECTRONICS; MICROWAVE ENGINEERING.

EXPERIENCE : SCIENTIST B, CEERI SINCE JUNE, 1990.

PRESENT ACTIVITIES : RESEARCH & DESIGN & DEVELOPMENT OF GYROTRON.

LANGUAGES : BENGALI, ENGLISH, HINDI, SANSKRIT.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 2, DESIGN - 1, TESTING - 1.

977

SHRI ONKAR SINGH LAMBA; (B. MAY 14, 1951),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - RAJASTHAN '74; M.SC. PHYSICS - POONA '86; M.S. SCIENCE & TECHNOLOGY - BITS, PILANI '90.

SPECIALIZATIONS : MW TUBES TECHNOLOGY; VACUUM TECHNOLOGY; CERAMIC TO METAL SEALING.

EXPERIENCE : TRAINEE, S.L.A., J.T.A. AND S.T.A., CEERI, 1975-88; SCIENTIST B, CEERI SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF MW TUBES.

LANGUAGES : HINDI, ENGLISH, RAJASTHANI, SANSKRIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 5, PROCESS UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : CEERI AWARD FOR BEST PROJECT, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 17.

978

SHRI A S MANDAL; (B. JULY 20, 1960),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.TECH. ELECTRONICS - I.I.T., KANPUR '86; M.TECH. ELECTRICAL ENGINEERING - I.I.T., DELHI.

SPECIALIZATIONS : MICROELECTRONICS; INTEGRATED ELECTRONICS & CIRCUITS.

EXPERIENCE : J.R.F., I.I.T. KANPUR, 1986-89; SCIENTIST B, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : IC DESIGN.

LANGUAGES : BENGALI, ENGLISH, HINDI, SANSKRIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4.

979

SHRI DHIRENDRA MATHUR; (B. SEPTEMBER 8, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION ENGINEERING - JODHPUR '88.

EXPERIENCE : JR. ENGINEER, LIPI DATA SYSTEMS, 1988-89; EXECUTIVE (MARKETING), SERVICE METERS (P) LTD., 1989-90; SCIENTIST B, CEERI SINCE JUNE, 1990.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 2, SALES MARKETING - 1/2, MATERIALS MANAGEMENT - 1.

980

SHRI DEBASIS MAZUMDAR; (B. JANUARY 2, 1963),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

981

SHRI RAMAWATAR MEENA; (B. APRIL 5, 1965),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. ELECTRICAL ENGINEERING - JODHPUR '90.

SPECIALIZATIONS : ELECTRICAL ENGINEERING.

EXPERIENCE : SCIENTIST B, CEERI SINCE MARCH, 1991.

PRESENT ACTIVITIES : OPERATION & MAINTENANCE OF ENGINEERING SERVICES.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 1.

982

SHRI S K MITTAL; (B. JULY 7, 1963),

ELECTRICAL ENGINEER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.E. MECHANICAL ENGINEERING - JODHPUR '88.

SPECIALIZATIONS : AUTOMOBILE ENGINEERING; REFRIGERATION & AIR CONDITIONING.

EXPERIENCE : TRAINEE ENGINEER, DIAMOND CEMENTS, JHANSI, 1988-89; ELECTRICAL ENGINEER (B), CEERI SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : MAINTENANCE OF ENGINEERING SERVICES.

LANGUAGES : HINDI, ENGLISH.

983

SHRI D R NAGPAL; (B. FEBRUARY 3, 1940),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA DRAUGHTSMANSHIP IN MECHANICAL ENGINEERING - MADHYA PRADESH '63.

SPECIALIZATIONS : ART WORK GENERATION; PHOTOMASK MAKING; MECHANICAL DRAFTING.

EXPERIENCE : JR. DRAUGHTSMAN, SR. DRAUGHTSMAN, J.T.A., S.T.A. AND SCIENTIST A, CEERI, 1965-86; TECHNICAL OFFICER (B), CEERI SINCE MAY, 1986.

PRESENT ACTIVITIES : PHOTOMASK FABRICATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TECH. DEV. - 3, PILOT PLANT - 2, OPERATION - 3, TESTING - 2, QUALITY CONTROL - 2, TECHNOLOGY TRANSFER - 3.

984

SHRI S C NANGROO; (B. AUGUST 3, 1948),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - HARYANA '68.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1970-88; TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1988.

985

SHRI SHAILENDRA NIGAM; (B. JANUARY 21, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI '85; M.SC. ELECTRONICS - DELHI '87.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS DESIGN; COMPUTER NETWORKS; SOFTWARE DEVELOPMENT.

EXPERIENCE : ELECTRONICS ENGINEER, P.T.I., DELHI, 1988-89; SCIENTIST B, CEERI SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : DEVELOPMENT OF HIGH SPEED LOCAL AREA NETWORK H/W & S/W BOTH CONVERSION OF ANALOGIIVE STEREOPLOTTESS TO DIGITAL WORKSTATIONS FOR CONTOGRAPHIC APPLICATIONS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 3, MAINTENANCE - 6.

986

DR(MRS) ARTI NOOR; (B. JUNE 30, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - ROHILKHAND '83; M.SC. PHYSICS - ROHILKHAND '85; PH.D. ELECTRONICS - B.H.U. '90.

SPECIALIZATIONS : MICROELECTRONICS; SEMICONDUCTOR DEVICES MODELLING & CAD DESIGNING.

EXPERIENCE : SCIENTIST B, CEERI SINCE JANUARY, 1990.

987

SHRI R PRABHAKAR; (B. DECEMBER 29, 1945),

TECHNICAL OFFICER (B), CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - KARNATAKA '67.

SPECIALIZATIONS : ELECTRICAL ENGINEERING; PRINTED CIRCUIT BOARD FABRICATION.

EXPERIENCE : S.L.A. AND J.T.A., NIO, GOA, 1975-79; S.T.A. AND SCIENTIST A, CEERI, 1979-89; TECHNICAL OFFICER (B), CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PRINTED CIRCUIT BOARD FABRICATION.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 18, TECH. DEV. - 18, PILOT PLANT - 2.

988

SHRI JAGDISH LAL RAHEJA; (B. APRIL 23, 1961),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.TECH. INDUSTRIAL PHYSICS - I.I.T., KHARAGPUR '86.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS DESIGN; GRAPHICS; NEURAL NETWORKS.

EXPERIENCE : FELLOW SCIENTIST, CSIO, CHANDIGARH, 1988-90; SCIENTIST B, CEERI SINCE FEBRUARY, 1990.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

989

SHRI SOBHA RAM; (B. JUNE 7, 1939),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MATRIC - PUNJABI '56; CERTIFICATE AN ELECTROPLATING - ROHTAK '57; DIPLOMA IN ELECTROPLATING - SONIPAT '64.

SPECIALIZATIONS : ELECTROPLATING; PAINTING; PC BOARD MAKING.

EXPERIENCE : ELECTROPLATOR, FOWARD CYCLE FACTORY AND S MANGLE SINGH SHOP, BHIWANI, ROHTAK, 1957-59; MECHANIC, P.MECH, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1962-91; TECHNICAL OFFICER (B), CEERI SINCE APRIL, 1991.

PRESENT ACTIVITIES : ELECTROPLATING AND MAINTENANCE OF EQUIPMENT.

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

990

SHRI KAMALJIT RANGRA; (B. JANUARY 3, 1959),

SCIENTIST B, CENTRAL ELECRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - PATIALA '80; M.SC. PHYSICS - PATIALA '82; M.E. - BITS, PILANI '91.

SPECIALIZATIONS : ELECTRON BEAM LETHOGRAPHY; MICROELECTRONICS; IMAGE PROCESSING; SCANNING ELECTRON MICROSCOPY RELATED TO IC TESTING TECHNIQUES.

EXPERIENCE : JRF AND SRF, CSIO, CHANDIGARH, 1982-86; SCIENTIST B, CEERI SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : ELECTRON BEAM LETHOGRAPHY; EBL AND SEM ANALYSIS.

LANGUAGES : HINDI, ENGLISH. GERMAN, PUNJABI.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 4.

AWARDS & DISTINCTIONS : CEERI FOUNDATION AWARD, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 5, OPERATION - 5.

991

SHRI M S RATHORE; (B. NOVEMBER 13, 1948),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE, RADIO MECHANIC - I.T.I., RAJASTHAN '66; B.A. - DELHI '75; M.A. HINDI - RAJASTHAN '84.

SPECIALIZATIONS : TRANSFORMER DESIGN; CIRCUIT DESIGN AND TESTING.

EXPERIENCE : RADIO MECHANIC, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1968-89; TECHNICAL OFFICER (B), CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : EQUIPMENT & SYSTEMS INSTALLATION AND SERVICING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, PILOT PLANT - 5, TESTING - 3, MAINTENANCE - 8.

992

SHRI C M S RAUTHAN; (B. JUNE 15, 1960),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - GARHWAL '79; M.SC. PHYSICS - GARHWAL '82.

SPECIALIZATIONS : MICROELECTRONICS; ION IMPLANTATION.

EXPERIENCE : S.S.O. II, I.I.T. DELHI, 1988-89; SCIENTIST B, CEERI SINCE MARCH, 1989.

PRESENT ACTIVITIES : RESEARCH IN MICROELECTRONICS.

LANGUAGES : GARHWALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, APPLIED RESEARCH - 9.

993

SHRI D J RAY; (B. JULY 6, 1943),

TECHNICAL OFFICER (B), CEERI CENTRE, NEW DELHI (CEERI, PILANI).

QUALIFICATIONS : B.A. - CALCUTTA '64; CERTIFICATE IN PHOTOGRAPHY - SOCIETY OF AMATEURE PHOTOGRAPHERS, CALCUTTA '65.

SPECIALIZATIONS : SCIENTIFIC & INDUSTRIAL PHOTOGRAPHY; HIGH RESOLUTION PHOTOGRAPHY FOR MICROCIRCUITS; AUDIOVISUAL SOFTWARE PREPARATION.

EXPERIENCE : POTOGRAPHIC ARTIST, J.T.A., S.T.A. AND SCIENTIST A, CEERI, 1964-85; TECHNICAL OFFICER (B), CEERI SINCE JUNE, 1985; (ALSO VISITED U.S.S.R. FOR SCIENCE & TECHNOLOGY EXHIBITION, FESTIVAL OF INDIA, 1987).

PRESENT ACTIVITIES : PREPARATION OF AUDIOVISUAL SOFTWARE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 7, DOCUMENTATION - 4, REPROGRAPHY - 15, PHOTOGRAPHY (MAKING OF SCIENTIFIC FILMS AND AUDIOVISUALS) - 12.

994

SHRI P V L REDDY; (B. JANUARY 1, 1958),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - TIRUPATI '78; B.L.SC. LIBRARY & INFORMATION SCIENCES - JABALPUR '80; M.L.SC. LIBRARY & INFORMATION SCIENCES - BANARAS '82.

SPECIALIZATIONS : LIBRARY AUTOMOTION; INDEXING; REFERENCE SERVICES.

EXPERIENCE : SCIENTIFIC/TECHNICAL ASSISTANT, N.I.C., NEW DELHI, 1982-89; SCIENTIST B, CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : LIBRARY AUTOMOTION & INDEXING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 10.

995

SHRI KAMAL SADDAR; (B. OCTOBER 5, 1946),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : CERTIFICATE IN RADIO AND T.V. - RAJASTHAN '67.

SPECIALIZATIONS : POWER ELECTRONICS.

EXPERIENCE : RADIO MECHANIC, S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1968-88; TECHNICAL OFFICER (B), CEERI SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : R & D IN POWER ELECTRONICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, PATENTS TAKEN - 3, PROCESSES DEVELOPED - 4, PROCESSES UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 18, CONSULTANCY - 2, TESTING - 18, TEACHING - 1, TECHNOLOGY TRANSFER - 2, SALES MARKETING - 2.

996

SHRI S SHASHIKANT SURESH SADISTAP; (B. JUNE 26, 1966),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - PUNE '86; M.SC. ELECTRONICS SCIENCE - PUNE '88.

SPECIALISATIONS : MICROPROCESORS; PC BASED CONTROL SYSTEMS; POWER ELECTRONICS APPLICATIONS.

EXPERIENCE : DESIGN & DEVELOPMENT ENGINEER, M/S INCON ELECTRONICS SYSTEM PUNE, 1988-89; ASSISTANT ENGINEER (R & D), M/S DATAPRO PVT. LTD. PUNE, 1989-90; SCIENTIST B, CEERI SINCE FEBRUARY, 1990.

LANGUAGES : MARATHI, HINDI, ENGLISH.

997

DR MIRJI SANMATI; (B. MAY 13, 1962),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : S.S.L.C. - KARNATAKA '78; B.SC. - KARNATAKA ' 83; M.SC. PHYSICS - MANGALORE '85; PH.D. PHYSICS - IIT, BOMBAY '92.

SPECIALIZATIONS : TUNNELING; HIGH TC SUPERCONDUCTIVITY; SUPERCONDUCTING DEVICES; MEASUREMENT CIRCUITS.

EXPERIENCE : SCIENTIST B, CEERI SINCE MARCH, 1990.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : KANNADA, ENGLISH, HINDI.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, CONSTRUCTION - 1/2, APPLIED RESEARCH - 2, OPERATION - 1, DESIGN - 1/2, TESTING - 1, MAINTENANCE - 1.

998

SHRI A SADASIVA SARMA; (B. FEBUARY 10, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - OSMANIA '84; M.SC.(TECH) ELECTRONICS - KAKATIYA '87.

EXPERIENCE : CUSTOMER ENG., MICRONIC DEVICES, 1987-89; SR. CUSTOMER ENG., MODI OLIVETTI, 1989-90; SCIENTIST B, CEERI SINCE MARCH, 1990.

999

MISS ANURADHA SENGAR; (B. MAY 26, 1964),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1000

SHRI B N SHARMA; (B. JANUARY 6, 1938),

ASSISTANT ENGINEER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - U.P., ROORKEE '58.

SPECIALIZATIONS : DESIGN & DEVELOPMENT OF CLEAN ROOM.

EXPERIENCE : J.E. (BUILDINGS & SELECTINGS), A.E. (CIVIL), CEERI, 1959-89; ASSISTANT ENGINEER (B), CEERI SINCE JUNE, 1989.

LANGUAGES : HINDI, ENGLISH, SANSKRIT.

1001

SHRI J P SHARMA; (B. AUGUST 12, 1942),

TECHNICAL OFFICER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - AGRA '65.

SPECIALIZATIONS : LAPPING AND POLISHING OF SILICON WAFERS; CLEAN ROOMS MAINTENANCE.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND SCIENTIST A, CEERI, 1966-85; (ALSO REFRESHER COURSE IN ELECTROPLATING, CECRI, KARAIKUDI, 1968); TECHNICAL OFFICER (B), CEERI SINCE JANUARY, 1985.

PRESENT ACTIVITIES : LAPPING AND POLISHING OF SILICON WAFERS AND MAINTENANCE OF CLEAN ROOMS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1983.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 21, MAINTENANCE - 21.

1002

DR(MRS) R SHARMA; (B. DECEMBER 29, 1951),

L M O (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.B.B.S. '76; DIPLOMA IN ACUPUNCTURE.

SPECIALIZATIONS : ACUPUNCTURE.

EXPERIENCE : L M O (B), CEERI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : CLINICAL.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 17 YEARS).

1003

SHRI JAGMAL SINGH; (B. MAY 5, 1938),

MECHANICAL ENGINEER (B), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MATRICULATION EXAM. - RAJASTHAN '56; APPREINTIESHIP - PILANI '57; FINAL MACHINE SHOP ENGINEERING C&G - LONDON '64; FORMANSHIP COURSE - BOMBAY '76; NATIONAL CERTIFICATE EXAM. - N.P.C. '71.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : LAB-BEARER, MECHANIC, P. MECHANIC, SUP. MECHANIC, J.M.A., S.M.A. AND MECHANICAL ENGINEER (A), CEERI, 1957-85; MECHANICAL ENGINEER (B), CEERI SINCE JUNE, 1985.

PRESENT ACTIVITIES : FABRICATION & SUPERVISION.

LANGUAGES : HINDI, ENGLISH

AWARDS & DISTINCTIONS : CEERI INDIVIDUAL MERIT AWARD, 1970; CEERI FOUNDATION DAY MERIT TEAM AWARD, 1970, 1989, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TECHNICAL DEV. - 5, QUALITY CONTROL - 3, PLANNING - 2, MAINTENANCE - 5, TECH. TRANSFER -3, PRODUCTION - 15.

1004

SHRI PUKHRAJ SINGH; (B. SEPTEMBER 20, 1965),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. ELECTRICAL - AGRA '89.

SPECIALIZATIONS : POWER ELECTRONICS.

EXPERIENCE : SCIENTIST B, CEERI SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : DEVELOPMENT OF UNITY POWER FACTOR CONVERTER AND DC DRIVE FOR MINE LOCOMOTIVES.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : DR G N ACHARYA AWARD, CEERI, 1992.

1005

SHRI RAJBIR SINGH; (B. MARCH 8, 1953),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1006

SHRI J B SONI; (B. JULY 8, 1948),

TECHNICAL OFFICER (B), CEERI CENTRE, NEW DELHI (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - RAJASTHAN '67.

SPECIALIZATIONS : COMPUTER AIDED DESIGN.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST A, CEERI, 1970-88; TECHNICAL OFFICER (B), CEERI SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : COMPUTER AIDED DESIGN.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 8, MAINTENANCE - 2, TECHNOLOGY TRANSFER - 3, COMPUTER PROCESSING - 6.

1007

SHRI K M K SRIVATSA; (B. OCTOBER 19, 1958),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : M.SC. ELECTRONICS - KANPUR '79; PH.D. SOLID STATE PHYSICS - KANPUR '87.

SPECIALIZATIONS : SOLID STATE PHYSICS; MICROELECTRONICS.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.T., KANPUR, 1986-89; SCIENTIST B, CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : RESEARCH & DEVELOPMENT OF ELECTRONIC MATERIALS DEPOSITION & CHARACTARIZATION, SEMICONDUCTOR DEVICE FABRICATION PROCESS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 6, PROCESS DEVELOPED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, APPLIED RESEARCH - 8, CONSTRUCTION - 5, TEACHING - 5, COMPUTER PROC. - 8.

1008

SHRI S SASHIKANT SURESH; (B. JUNE 26, 1966),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - PUNE '86; M.SC. ELECTRONICS SCIENCE - PUNE '88.

SPECIALIZATIONS : MICROPROCESSOR BASED CONTROL SYSTEMS IN POWER ELECTRONICS.

EXPERIENCE : DESIGN AND DEVELOPMENT ENGINEER, M/S INCON ELECTRONICS SYSTEM PUNE, 1988-89; ASSISTANT ENGINEER (R & D), M/S DATAPRO PVT. LTD. PUNE, 1989-90; SCIENTIST B, CEERI SINCE FEBRUARY, 1990.

LANGUAGES : MARATHI, HINDI, ENGLISH.

1009

SHRI V VENKATARAMAN; (B. JULY 4, 1953),

SCIENTIST B, CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : B.SC. PHYSICS - MADURAI '74; A.M.I.E. ELECTRONICS AND COMMUNICATION - INSTITUTION OF ENGINEERS, INDIA '78.

SPECIALIZATIONS : INSTRUMENTATION.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST A, CEERI, 1980-85; SCIENTIST B, CEERI SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : RESEARCH AND QUALITY CONTROL.

LANGUAGES : TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 5, TESTING - 1, QUALITY CONTROL - 5.

1010

SHRI RAJESH VERMA; (B. DECEMBER 7, 1961),

SCIENTIST B, CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. PHYSICS - DELHI '82; M.SC. PHYSICS - DELHI '84; M.TECH. MICROWAVE ELECTRONICS - DELHI `86.

SPECIALIZATIONS : MICROWAVE TUBES; SPEECH ANALYSIS.

EXPERIENCE : S.O. (SC), SAMEER, BOMBAY, 1986-88; SCIENTIST B, CEERI SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : BASIC/APPLIED RESEARCH IN SPEECH RECOGNITION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES.PAPERS - 8, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 5.

1011

SHRI P K ANIL; (B. DECEMBER 20, 1952),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC PHYSICS - KERALA '73.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A., CEERI, 1978-91; TECHNICAL OFFICER (A), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF PROCESS INSTRUMENTS.

LANGUAGES : MALAYALAM, ENGLISH, HINDI, TAMIL.

PUBLICATIONS & PATENTS : RES.PAPERS - 8, PROCESSES DEVELOPED - 3, PROCESS UNDER UTILISATION - 1.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY AWARD, 1990.

1012

SHRI H K BHATIA; (B. NOVEMBER 13, 1938),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1013

SHRI S P BHATIA; (B. MARCH 8, 1942),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1014

SHRI DHARAM CHAND; (B. OCTOBER 1, 1943),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. - PUNJAB '69.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : APPRENTICE, MECHANIC, P.MECH. J.M.A. AND S.M.A., CEERI, 1962-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : TURNING ASSEMBLY & SUPERVISON.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD FOR FABRICATION AND ASSEMBLY OF PLASMA REACTOR, 1985; CEERI AWARD FOR SETTING UP OF MM LAB AND COMPONENTS, 1989; FOR PRODUCING SPECIAL PURCHASES EQUIPMENT AND MACHINES, CEERI, 1990.

1015

SHRI S CHELLAM; (B. MAY 26, 1953),

TECHNICAL OFFICER (A), CEERI CENTRE, MADRAS (CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI).

QUALIFICATIONS : DIPLOMA IN ELECTROPLATING - TAMIL NADU '72.

SPECIALIZATIONS : ELECTROPLATING; PRINTED CIRCUIT BOARD FABRICATION.

EXPERIENCE : J.T.A. AND S.T.A., NIO, GOA, 1976-83; S.T.A., CEERI, 1983-86; TECHNICAL OFFICER (A), CEERI SINCE MAY, 1986.

PRESENT ACTIVITIES : PRINTED CIRCUIT BOARD FABRICATION, ELECTROPLATING AND PHOTOGRAPHY.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 11, QUALITY CONTROL - 11, PRODUCTION - 11.

1016

SHRI H S CHOPRA; (B. OCTOBER 2, 1944),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : R.D.S. - ROYAL DRAWING SOCIETY, LONDON '63; I.G.D. - BOMBAY '63.

SPECIALIZATIONS : COMPOSITION; EXHIBITION DISPLAYS & TABLEAUS; INTERIOR & EXTERIOR DECORATION; ARTWORK FOR PUBLICATION; MODELS MAKING; SCULPTURES & MUSOLOGY; BROCHURE DESIGN.

EXPERIENCE : WORK SHOP APPRENTICE, J.L.A., S.L.A., J.T.A. AND S.T.A., CEERI, 1964-91; TECHNICAL OFFICER (A), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : LIAISON, ART WORK.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1979-89; CEERI SERVICE AWARD 1989, 1993.

1017

SHRI P C CHOPRA; (B. AUGUST 4, 1941),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : TWO YEARS CRAFTSMANSHIP CERTIFICATE COURSE - PB POLYTECHNIC, INDIA '60; SHORT TERM COURSE IN ENGG METROLOGY - DELHI '76.

SPECIALIZATIONS : MECHANICAL INSPECTION OF HIGHLY PRECISION JOBS BY OPTOMECHANICAL METHODS.

EXPERIENCE : MECHANIC, PRECISION MECHANIC, PRECISION MECHANIC SPT. GRADE AND S.M.A., CEERI, 1962-89; MECHANICAL ENGINEER (A), CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : METROLOGY.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1989

1018

SHRI BHAGWAN DASS; (B. JUNE 12, 1945),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERT RADIO & TV - AGRA '75; B.SC. - AGRA '87.

EXPERIENCE : J.T.A., S.T.A. AND TECHNICAL OFFICER (A), CEERI, 1977-89; TECHNICAL OFFICER (B), CEERI SINCE JUNE, 1989.

PRESENT ACTIVITIES : PILOT PLANTS FOR PRODUCTION OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 15.

1019

SHRI TEJ BHAN DEWAN; (B. JUNE 4, 1944),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. TRADE THEORY PRACTICAL - HARYANA '64; PARVEEN HINDI - NEW DELHI '88; PARAGYA HINDI - NEW DELHI '90.

SPECIALIZATIONS : PRECISION FITTING & ASSEMBLY; SHEET METAL WORK.

EXPERIENCE : MECHANIC, PREE MECHANIC, SUP. MECHANIC, SPL GRADE, J.M.A. AND S.M.A CEERI, 1964-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : HIGH PRECISION FITTINGS; SHEET METAL WORK.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PUBLICATIONS & PATENTS : PATENTS TAKEN - SOLDERING BIT.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD FOR FABRICATION AND SETTING UP OF A PLASMA REACTOR CHAMBER, 1985; CEERI MERIT TEAM AWARD FOR SETTING UP OF MM LAB, 1989; CEERI MERIT TEAM AWARD FOR DESIGN & FABRICATION OF SPECIAL PURPOSE MACHINE, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 29.

1020

SHRI Y N GUPTA; (B. JUNE 6, 1945),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE,

QUALIFICATIONS: DIPLOMA IN INSTRUMENT TECHNOLOGY - INDO-SWISS TRAINING CENTRE, CHANDIGARH '66.

SPECIALIZATIONS : INSTRUMENTATION.

EXPERIENCE : JR. DRAUGHTSMAN, SR. DRAUGHTSMAN, J.T.A. AND S.T.A., CEERI, 1967-89 TECHNICAL OFFICER (A), CEERI SINCE APRIL, 1989.

PRESENT ACTIVITIES : DRAWING & DESIGN WORK.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DRAWING & DESIGN - 25.

1021

SHRI D D JOSHI; (B. MARCH 16, 1944),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1022

SHRI S R KAPOOR; (B. JANUARY 5, 1944),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE, MECH.- I.T.I., ROHTAK '62.

SPECIALIZATIONS : WELDING TECHNOLOGY.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.M.A. AND S.M.A., CEERI, 1965-89; MECHANICAL ENGINEER (A), CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : TECHANICAL DEV.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1980.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TECHNICAL DEV, PILOT PLANT AND MAINTENANCE - 30.

1023

SHRI SUBHASH KAUSHIK; (B. MARCH 17, 1946),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1024

SHRI SULEMAN KHAN; (B. JULY 20, 1947),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. SHEET METAL - JAIPUR '69.

SPECIALIZATIONS : SHEET METAL.

EXPERIENCE : APPRENTICESHIP, MECHANIC, PREC. MECHANIC, J.M.A. AND S.M.A., CEERI, 1964-89; MECHANICAL ENGINEER (A), CEERI SINCE JUNE, 1989.

PRESENT ACTIVITIES : HIGH PRECISION IN SHEET METAL FITTING.

LANGUAGES : HINDI, ENGLISH, URDU, ARBI, RAJASTHANI.

1025

SHRI PREM KUMAR; (B. AUGUST 14, 1949),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1026

SHRI JAI LAL; (B. OCTOBER 30, 1945),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERT. BLACK SMITHY - JAIPUR '65; I.T.I. CERTIFICATE IN FITTER TRADE - JAIPUR '72.

SPECIALIZATIONS : BLACK SMITHY FITTERING; WELDING.

EXPERIENCE : MECHANIC, INST. MECH., J.M.A. AND S.M.A., CEERI, 1966-89; MECHANICAL ENGINEER (A), CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : BLACK SMITHY FITTING; WELDING.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI INFRASTRUCTURE MERIT AWARD, 1988; CEERI TEAM AWARD, 1990, 1992.

1027

SHRI KRISHAN LAL; (B. AUGUST 28, 1942),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MATRIC - RAJASTHAN.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : APPRENTICE, G.S.I., 1959-61; TURNER & FITTER AND MECHANIC, IMI, AMBALA, 1961-63; MECHANIC, CEERI, 1964-66; MECHANICAL ENGINEER (A), CEERI SINCE MAY, 1990.

PRESENT ACTIVITIES : WORKSHOP TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1985; CEERI MERIT TEAM AWARD, 1989, 1992.

1028

SHRI PIARA LAL; (B. JULY 21, 1942),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERT. - JAIPUR '69.

SPECIALIZATIONS : ENGINEERING DRAWING; TURNING.

EXPERIENCE : APPRENTICSHIP, MECHANIC, PRAC. MECHANIC, J.M.A., S.M.A., CEERI, 1962-90; MECHANICAL ENGINEER (A), CEERI SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : WORKSHOP TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD, 1979; CEERI MERIT TEAM AWARD, 1989, 1992.

1029

SHRI SHREE LAL; (B. MARCH 18, 1936),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1030

MRS K MEENASKHI; (B. DECEMBER 20, 1952),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1031

SHRI ACHINTESH MISTRY; (B. JANUARY 13, 1958),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DOUBLE DIPLOMA PHOTOGRAPHY - INDIA '79; LICENCIATE IN PHOTOGRAPHY - R.P.S., LONDON '82.

SPECIALIZATIONS : COLOUR PHOTOGRAPHY; SOFTWARE DEVELOPMENT FOR A V PROGRAMMES.

EXPERIENCE : TECHNICAL OFFICER (A), CEERI SINCE JUNE, 1980.

PRESENT ACTIVITIES : PHOTOGRAPHY.

LANGUAGES : BENGAL, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : ARTICLES - 3.

AWARDS & DISTINCTIONS : CEERI SERVICE AWARD, 1990.

1032

SHRI B C PATHAK; (B. AUGUST 7, 1957),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1033

SHRI H C PATHAK; (B. AUGUST 14, 1955),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA ELECT. ENGG. - U.P. '78.

SPECIALIZATIONS : POWER ELECTRONICS & CAD.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A. CEERI, 1980-91; TECHNICAL OFFICER (A), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : DESIGNING OF PCBS BY CAD SYSTEM.

LANGUAGES : HINDI, SANSKRIT, PAHARI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, PATENTS FILED CURRENTLY - 1, PROCESSES DEVELOPED - 3, PROCESS UNDER UTILISATION - 2.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD FOR BEST PROJECT, 1988, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TESTING, TECH. TRANSFER, DOCUMENTATION AND COMPUTER PROC - 13.

1034

SHRI R S PAWHA; (B. MARCH 15, 1947),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1035

SHRI DWARKA PRASAD; (B. SEPTEMBER 3, 1945),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERTIFICATE IN ELECTRICIAN'S TRADE - RAJASTHAN '65.

EXPERIENCE : APPRENTICE SHIP, SKILLED WORKER, J.L.A., S.L.A., J.T.A. AND S.T.A., CEERI, 1965-90; TECHNICAL OFFICER (A), CEERI SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3, PROCESSES DEVELOPED - 5, PROCESS UNDER UTILISATION - 5.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD, 1980, 1983, 1987; CEERI MERIT AWARD, 1988; NRDC INDEPENDENCE DAY AWARD, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 28, CONSULTANCY - 10, TESTING - 28, TECH. TRANSFER - 10.

1036

SHRI SATESHWAR PRASAD; (B. JULY 7, 1947),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : N.C.T.V.T. - DELHI '66; MATRIC - U.P. '78.

SPECIALIZATIONS : CARPENTRY.

EXPERIENCE : CARPENTER, NAITRAHEEN, DEHRADUN, 1967; CARPENTER, PRATAP MUSIC, DEHRADUN, 1968-69; CARPENTER, MINISTER OF DEFENCE, 1969-80; J.M.A. AND S.M.A., CEERI, 1980-90; MECHANICAL ENGINEER (A), CEERI SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : CARPENTRY.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1989-90 & 1992-93.

1037

SHRI GHISA RAM; (B. JUNE 15, 1946),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : CERTIFICATE SHEET METAL - I.T.I., NEW DELHI '60.

SPECIALIZATIONS : PRECISION SHEET METAL FITTING.

EXPERIENCE : MECHANIC, INST. MECH., J.M.A., S.M.A. AND S.M.A., CEERI, 1966-89; MECHANICAL ENGINEER (A), CEERI SINCE JUNE, 1989.

PRESENT ACTIVITIES : SHEET METAL.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 28

1038

SHRI PADMA CHARAN SAHOO; (B. APRIL 12, 1949),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN PERSONNEL MANAGEMENT - IIMS, INDIA '83; DIPLOMA IN COMPUTER MANAGEMENT - DELHI '88.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : NATIONAL APPRENTICE, H.A.L, 1968-80; FORMAN B, CEERI, 1980-90; MECHANICAL ENGINEER (A), CEERI SINCE NOVEMBER, 1990.

PRESENT ACTIVITIES : SUPERVISION; WORKSHOP TECHNOLOGY.

LANGUAGES : ORIYA, ENGLISH, HINDI.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1992.

1039

SHRI SHANKAR LAL SAINI; (B. JUNE 3, 1943),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : S.S.E. - RAJASTHAN '62.

SPECIALIZATIONS : MILLING.

EXPERIENCE : MILLER, NATIONAL ENGG. INDUSTRIES LTD., JAIPUR, 1965-67; MECHANICAL ENGINEER, CEERI, 1967-90; MECHANICAL ENGINEER (A), CEERI SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : MILLING AND PRECISION WORK.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI FOUNDATION DAY MERIT AWARD, 1989, 1992.

1040

SHRI O P SHAH; (B. MARCH 15, 1942),

STATISTICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1041

SHRI B G SHARMA; (B. AUGUST 27, 1945),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : C.LIB.SC. - RAJASTHAN '68; B.COM. - RAJASTHAN '74; B.LIB.SC. & DOC. LIBRARY SCIENCE - RAJASTHAN '80; M.LIB.SC. & DOC. LIBRARY SCIENCE - RAJASTHAN '83.

SPECIALIZATIONS : LIBRARY MANAGEMENT; REPROGRAPHY.

EXPERIENCE : LIBRARIAN, S.S.D.H.S. SCHOOL, 1969-70; JR. LIBRARIAN, J.T.A. AND S.T.A., CEERI, 1970-88; TECHNICAL OFFICER (A), CEERI SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : LIBRARY DOCUMENTS PROCUREMENTS AND REPROGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : BIBLIOGRAPHIES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 22, REPROGRAPHY - 18.

1042

SHRI KALYAN SAHAI SHARMA; (B. SEPTEMBER 1, 1940),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. ENGG. DRAWING - JAIPUR '68.

EXPERIENCE : DIE FITTER, CHANDRA IND., 1963-66; MECHANIC, PRE. MEC., J.M.A S.M.A., CEERI, 1966-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI PROJECT TEAM AWARD, 1984; CEERI FOUNDATION DAY INDIVIDUAL TEAM AWARD, 1992.

1043

SHRI T R SHARMA; (B. OCTOBER 15, 1958),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS - TECHNICAL EDUCATION BOARD, LUCKNOW '81.

SPECIALIZATIONS : MDS SYSTEMS; PC BASED SOFTWARE DEVELOPMENT; PC BASED CAD; DIGITAL HARDWARE/COMPUTER ENGINEERING.

EXPERIENCE : TECH. ASSTT., TOSHNIWAL INDUSTRIES PVT. LTD., 1981-84; J.T.A AND S.T.A., CEERI, 1984-90; TECHNICAL OFFICER (A), CEERI SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : R & D IN INDUSTRIAL ELECTRONICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH REPORTS - 2, SCIENTIFIC BOOK - 1, PATENTS TAKEN - 1, PATENTS FILED CURRENTLY - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, DESIGN - 8, TESTING - 2.

1044

SHRI RADHEY SHYAM; (B. NOVEMBER 25, 1951),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1045

SHRI BIRBAL SINGH; (B. DECEMBER 5, 1949),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - JAIPUR '74.

SPECIALIZATIONS : ENVIRONMENTAL TESTING OF ELECTRONIC COMPONENTS & EQUIPMENT

EXPERIENCE : GRAD.TRAINEE, S.L.A., J.T.A. AND S.T.A., CEERI, 1975-91; TECHNICAL OFFICER (A), CEERI SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : ENVIRONMENTAL TESTING OF ELECTRONIC COMPONENTS/EQUIPMENTS AND MODULES DURING R & D.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIG, ENVIRONMENTAL TESTING - 18.

1046

SHRI GURUDIAL SINGH; (B. FEBRUARY 16, 1945),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. - PUSA, DELHI '66; TRAINING IN PRESS TOOL DESIGN - A.T.I. '83; HINDI PRAGYA - DTE. OF EDUCATION, DELHI '73.

SPECIALIZATIONS : PRECISION FITTING; PRECISION ENGINEERING.

EXPERIENCE : MECHANIC, INST. MECHANIC, J.M.A. AND S.M.A., CEERI, 1970-89; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1989.

PRESENT ACTIVITIES : HIGH PRECISION FITTING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1985, 1989, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 23.

1047

SHRI JIWAN SINGH; (B. FEBRUARY 12, 1940),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. - PUNJAB '64; C.T.I. - PUNJAB '66; HINDI PRAVEEN - DTE. OF EDUCATION, DELHI '71; HINDI PRAGYA - DTE. OF EDUCATION, DELHI '72.

SPECIALIZATIONS : PRECISION FITTING & ASSEMBLY; PRECISION ENGINEERING.

EXPERIENCE : PRECISION MECHANIC, J.M.A. AND S.M.A., CEERI, 1969-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : HIGH PRECISION FITTING ASSEMBLY WORK.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 23.5

1048

SHRI JOT SINGH; (B. OCTOBER 15, 1937),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI

QUALIFICATIONS : I.T.I. CERTIFICATE IN TESTING '69.

SPECIALIZATIONS : TURNING.

EXPERIENCE : HELPER, CRRI, 1957-63; MECHANIC, PRECISION MECHANIC, J.M.A. AND S.M.A., CEERI, 1964-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : ENGAGED IN TURNING AND DIE JOBS IN THE WORKSHOP.

LANGUAGES : HINDI, ENGLISH, GARWALI, MARATHI.

AWARDS & DISTINCTIONS : CEERI MERIT TEAM AWARD, 1990, 1993; CEERI INFRASTRUCTURE MERIT AWARD.

1049

SHRI MANDROOP SINGH; (B. JANUARY 1, 1947),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. TURNER TRADE - JAIPUR '70.

EXPERIENCE : APPRIENTICE, BITS, PILANI, 1964-65; APPRIENTICE, MECHANIC, PRE.MECH J.M.A. AND S.M.A., CEERI, 1965-90; MECHANICAL ENGINEER (A), CEERI SINCE JULY, 1990.

PRESENT ACTIVITIES : PROGRAMMING AND OPERATING C.N.C. LATHE M/C.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CEERI TEAM AWARD, 1989, 1992.

1050

SHRI ONKAR SINGH; (B. MARCH 10, 1942),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERTIFICATE - PUNJAB '59.

SPECIALIZATIONS : PRECISION TURNING.

EXPERIENCE : MECHANIC, PREC. MECHANIC, SUP. MECHANIC, J.M.A. AND S.M.A., CEERI, 1962-89; MECHANICAL ENGINEER (A), CEERI SINCE MAY, 1989.

PRESENT ACTIVITIES : PRECISION TURNING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV - 32.

1051

SHRI PRITAM SINGH; (B. JUNE 30, 1940),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : I.T.I. CERTIFICATE IN FITTER'S TRADE - PUSA '62.

SPECIALIZATIONS : DIE FITTING.

EXPERIENCE : APPRENTICE OPERATOR, SKD OPERATOR. MISTRY AND MECHANICAL, N.P.L., 1959-66; PREC. MECHANICAL, SUP. MECHANICAL, J.M.A. AND S.M.A., CEERI, 1966- 89; MECHANICAL ENGINEER (A), CEERI SINCE MAY. 1989.

PRESENT ACTIVITIES : FITTING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : FITTING & ASSEMBLY & DIE FITTING - 34.

1052

SHRI RAMVIR SINGH; (B. JULY 18, 1957),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : DIPLOMA ELECTRICAL - TECH EDUCATION BOARD, LUCKNOW '81.

EXPERIENCE : SUPERVISOR AND TECHNICIAN, CEERI, 1981-84; TECHNICAL OFFICER (A), CEERI SINCE OCTOBER, 1989.

1053

SHRI R N SONI; (B. NOVEMBER 28, 1951),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1054

SHRI B SUNDARSEAN; (B. NOVEMBER 3, 1958),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

1055

SHRI M S TYAGI; (B. JULY 10, 1953),

TECHNICAL OFFICER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : B.SC. - MEERUT '71; M.SC. PHYSICS - MEERUT '85; M.S. ELECTRONIC SCIENCE - BITS, PILANI '93.

SPECIALIZATIONS : ELECTRONICS; VACUUM TECHNIQUES.

EXPERIENCE : LAB ASSTT. AND SUPERVISOR, UP CERAMICS & POTTERIES LTD, GHAZIABAD, 1973-75; GR. TRAINEE, S.L.A., J.T.A. AND S.T.A., CEERI, 1975-88; TECHNICAL OFFICER (A), CEERI SINCE APRIL, 1988.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : CEERI MERIT AWARD. 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 2, TECHNICAL DEV. - 18.

1056

SHRI J M VERMA; (B. NOVEMBER 24, 1943),

MECHANICAL ENGINEER (A), CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, PILANI.

QUALIFICATIONS : MECHANICAL APPRENTICESHIP CERTIFICATE - BITS WORKSHOP '63.

SPECIALIZATIONS . PRECISION MILLING: PRECISION ENGRAVING.

EXPERIENCE : APPRENTICE. WORK CHARGE. MECHANIC. PREC. MECHANIC, J.M.A. AND S.M.A CEERI. 1965-90: MECHANICAL ENGINEER (A). CEERI SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : HIGH PRECISION MILLING & ENGINEERING WORK.

LANGUAGES HINDI. ENGLISH

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 29.

CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION

1057

DR K R SARMA; (B. SEPTEMBER 20, 1936),

DIRECTOR, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.TECH.(HONS.) ELECTRONICS AND ELECTRICAL COMMUNICATION ENGINEERING - I.I.T., KHARAGPUR '57; M.TECH. UHF AND MICROWAVE TECHNIQUES - I.I.T., KHARAGPUR '58; PH.D.ELECTRICAL - CORNELL UNIVERSITY, U.S.A. '61.

SPECIALIZATIONS : MICROWAVE TECHNIQUES; COMMUNICATION CONTROLS; COMPUTERS & ELECTRONIC DEVICES; ELECTROMAGNETICS, POWER SYSTEMS AND POWER ELECTRONICS.

EXPERIENCE : LECTURER, ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR AND PROFESSOR, I.I.T., KANPUR, 1961-88; (ALSO VISITING ASSISTANT PROFESSOR, MASSACHUSSETTS INSTITUTE OF TECHNOLOGY, U.S.A., 1968-69); ADVISER, INSTRUMENT DEVELOPMENT PROGRAMME, DEPARTMENT OF SCIENCE AND TECHNOLOGY, 1988-91; DIRECTOR, C.S.I.O. SINCE APRIL, 1991.

PRESENT ACTIVITIES : RESEARCH MANAGEMENT; INSTRUMENTATION RESEARCH & DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A., U.K., JAPAN, RUSSIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, PAPER PRESENTED - 6, TECHNICAL REPORTS - 4.

AWARDS & DISTINCTIONS : SCIENTIST OF THE YEAR AWARD, GIAN CHAND JAIN MEMORIAL FOUNDATION, AMBALA, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 32, BASIC RES. - 32.

1058

DR R P BAJPAI; (B. SEPTEMBER 21, 1944),

SCIENTIST G, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '63; M.SC. PHYSICS (ELECTRONICS) - AGRA '65; PH.D. SOLID STATE PHYSICS - I.I.T., DELHI '70; D.SC. MATERIALS SCIENCE - HOKKAIDO UNIVERSITY, JAPAN '74.

SPECIALIZATIONS : MATERIALS SCIENCE; MICROELECTRONIC INSTRUMENTATION; SURFACE PHYSICS AND CHEMISTRY; SEMICONDUCTOR TECHNOLOGY.

EXPERIENCE : LECTURER, KANPUR UNIVERSITY, 1965-67; RESEARCH FELLOW, I.I.T., DELHI, 1967-70; U.N.O. FELLOW, RESEARCH INSTITUTE OF CATALYSIS, HOKKAIDO UNIVERSITY, JAPAN, 1971-74; ALEXANDER VON HUMBOLDT FELLOW, INSTITUTE FOR TECH. PHYSICS, CLAUSTHAL, W. GERMANY, 1974-76; SENIOR STAFF SCIENTIST, STATE UNIVERSITY OF NEW YORK AT STONY BROOK, U.S.A., 1976-77; SENIOR SCIENTIST AND GUEST PROFESSOR, E.T.H., ZURICH, SWITZERLAND, 1977-78; SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, C.S.I.O., 1978-90; SCIENTIST G, C.S.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D IN MICROELECTRONICS INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH, JAPANESE, GERMAN.

VISITED : JAPAN, GERMANY, U.S.A., SWITZERLAND, HOLLAND, FINLAND, SWEDAN, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 80, TECH. REPORTS - 15, SCIENTIFIC BOOKS - 2, PROCESSES DEVELOPED - 7, PROCESS UNDER UTILISATION - 3.

AWARDS & DISTINCTIONS : FERMI FELLOWSHIP AWARD, ITALY; FELLOW, INSTITUTION OF CHEMISTS(INDIA); FELLOW, OPTICAL SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 17, DESIGN - 8, TECH. DEV. - 13, R & D MGMT. - 14, TEACHING - 2, TESTING - 6.

1059

DR A K AGGARWAL; (B. JANUARY 21, 1945),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. PHYSICS - AGRA '64; D.I.I.T. APPLIED OPTICS - I.I.T., DELHI '65; PH.D. PHYSICS - I.I.T., DELHI '68.

SPECIALIZATIONS : HOLOGRAPHY; COHERENT OPTICS; LASER APPLICATIONS; OPTICAL DATA PROCESSING; INSTRUMENTATION.

EXPERIENCE : S.S.O. (II), I.I.T., DELHI, 1967-68; VISITING ASSISTANT PROFESSOR, UNIVERSITY OF MIAMI, U.S.A., 1968-69; POOL OFFICER (C.S.I.R.), I.I.T., DELHI, 1969-70; SCIENTIST B, C.S.I.O., 1970-73; RESEARCH ENGINEER (B),I.I.T., KANPUR, 1973-77; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1977-90; SCIENTIST F, C.S.I.O. SINCE JULY, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 80, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 3, DESIGN & DEVELOPMENT - 20.

1060

DR S N BAGCHI; (B. SEPTEMBER 16, 1935),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. METALLURGY - SAUGAR '60; PH.D. PHYSICAL METALLURGY - TECHNICAL UNIVERSITY, BRNO, CZECHOSLOVAKIA '67.

SPECIALIZATIONS : PHYSICAL METALLURGY; FOUNDRY; INSTRUMENTATION; METALLURGICAL QUALITY CONTROL.

EXPERIENCE : LECTURER, GOVT. ENGINEERING COLLEGE AT JABALPUR AND LATER ON AT RAIPUR, M.P., 1960-68; READER, PANJAB ENGINEERING COLLEGE, CHANDIGARH, 1968-69; READER, MALVIA REGIONAL ENGINEERING COLLEGE, JAIPUR, 1969-70; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1970-86; SCIENTIST F, C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH, DESIGN AND DEVELOPMENT OF METALLURGICAL TEST INSTRUMENTS; DEVELOPMENT OF NEW ALLOYS.

LANGUAGES : BENGALI, HINDI, ENGLISH, CZECH.

VISITED : CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, BOOK PUBLISHED - 1, PROCESSES DEVELOPED - 7, TECH. REPORTS - 40.

AWARDS & DISTINCTIONS : MEMBER, INDIAN INSTITUTE OF METALS, CALCUTTA; MEMBER, POWDER METALLURGY ASSOSIATION OF INDIA, HYDERABAD.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 10, DESIGN & DEVELOPMENT - 8, TESTING & ANALYSIS - 7, CONSULTANCY - 5.

1061

SHRI P C BANERJIE; (B. JULY 10, 1938),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - LUCKNOW '62.

SPECIALIZATIONS : ELECTRON OPTICS; X-RAY SPECTROSCOPY; OPTICAL SPECTROSCOPY; ELECTRONIC INSTRUMENTATION.

EXPERIENCE : RESEARCH PHYSICIST/ASSISTANT TECHNOLOGIST, FERTILIZER CORPORATION OF INDIA LTD., SINDRI, BIHAR, 1964-69; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1969-89, SCIENTIST F, C.S.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D IN ELECTRON-OPTICS AND MICROSCOPY/MICROELECTRONICS INSTRUMENTATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : GERMANY, SAUDI ARABIA, U.S.S.R., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN & TECHNICAL DEV. - 17, R & D MANAGEMENT - 4.

1062

DR E K MURTHY; (B. SEPTEMBER 12, 1938),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '60; B.TECH. APPLIED PHYSICS - CALCUTTA '64; M.TECH. OPTICAL ENGINEERING AND ILLUMINATION - CALCUTTA '65; M.SC. OPTICAL DESIGN - TASMANIA, AUSTRALIA '70; PH.D. OPTICAL DESIGN - KAKATIA '82.

SPECIALIZATIONS : OPTICAL DESIGN; OPTICAL INSTRUMENTATION; SOFTWARE DEVELOPMENT FOR OPTICAL DESIGN; COMPUTER SOFTWARE DEVELOPMENT BY NUMERICAL ANALYSIS.

EXPERIENCE : SCIENTIST A, SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1966-89; (ALSO ADVANCED TRAINING IN LENS DESIGN, UNDER UNDP PROGRAMME, AUSTRALIA, 1968-69); SCIENTIST F, C.S.I.O. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : OPTICAL DESIGN; DESIGN & DEVELOPMENT OF OPTICS BASED INSTRUMENTS; SOFTWARE DEVELOPMENT FOR OPTICAL DESIGN; COMPUTER SOFTWARE DEVELOPMENT BY NUMERICAL ANALYSIS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 4, PROCESSES DEVELOPED - 25, PROCESS UNDER UTILISATION - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 27.

1063

DR M A SHAMSHI; (B. JANUARY 1, 1944),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '64; B.TECH. ELECTRICAL - I.I.T., DELHI '68; M.E. ELECTRONIC ENGINEERING - PANJAB '80; PH.D. ELECTRONICS ENGINEERING - PANJAB '92.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION; GEOPHYSICAL INSTRUMENTATION; ANALYTICAL INSTRUMENTATION; TESTING & MEASURING INSTRUMENTATION.

EXPERIENCE : J.S.A., S.T.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1968-91; (ALSO TRAINING IN DATA PROCESSING AND INSTRUMENTATION, U.K., 1978); SCIENTIST F, C.S.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH, DESIGN AND DEVELOPMENT.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : ARTICLES - 12, PROCESSES DEVELOPED - 15, PROCESS UNDER UTILISATION - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D - 24.

1064

SHRI SUNIL RATAN TANEJA; (B. SEPTEMBER 26, 1947),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRICAL - PANJAB '68; M.E. ELECTRONICS & COMMUNICATION ENGINEERING - ROORKEE '70; M.B.A. - I.I.M., AHMEDABAD '74.

SPECIALIZATIONS : MAINTENANCE OF INSTRUMENT DATA BANK; COMMUNICATION TRANSPONDER DEVELOPMENT; MANAGEMENT INFORMATION SYSTEM DEVELOPMENT.

EXPERIENCE : ELECTRONICS ENGINEER, INDIAN SPACE RESEARCH ORGANISATION, TRIVANDRUM, 1970-72; EXECUTIVE (SYSTEM ANALYSIS), HINDUSTAN EVEREST TOOLS LTD., NEW DELHI, 1974-75; SCIENTIST EI AND SCIENTIST EII, C.S.I.O., 1975-83; SCIENTIST F, C.S.I.O. SINCE AUGUST, 1983 (ON DEPUTATION TO ELECTRONIC SYSTEMS PUNJAB LTD. AS ADDITIONAL GENERAL MANAGER SINCE AUGUST, 1986).

PRESENT ACTIVITIES : CORPORATE PLANNING; R & D MANAGEMENT; DOCUMENTATION, PUBLICATION & SDI SERVICE; ALSO HEADING MEDICAL ELECTRONICS INSTRUMENTATION DIVISION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING & MANAGEMENT - 16, DESIGN & DEVELOPMENT - 2, CONSULTANCY - 2.

1065

DR S S WADHWA; (B. MARCH 2, 1939),

SCIENTIST F, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL DIPLOMA IN MECHANICAL ENGINEERING - ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI '64; M.E. (HONS.) MACHINE DESIGN - ROORKEE '76; PH.D. MACHINE DESIGN - ROORKEE '83.

SPECIALIZATIONS : MECHANICAL ENGINEERING; COMPUTER APPLICATION SOFTWARE.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST B, SIENTIST C, SCIENTIST EI AND SCIENTIST EII, C.B.R.I., 1964-86; (ALSO STUDY OF THE MACHINES FOR PREFABRICATION OF BUILDINGS, HUNGARY, 1972); SCIENTIST F, C.S.I.O. SINCE JANUARY, 1986.

PRESENT ACTIVITIES : R & D IN SCIENTIFIC INSTRUMENTS/MICRO POSITIONING SYSTEMS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : HUNGARY, U.S.A., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, PATENTS TAKEN - 6, PROCESSES DEVELOPED - 2, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D IN BUILDING CONSTRNCTION - 20, MANAGEMENT OF COMPUTER CENTRE - 3, DESIGN & DEVELOPMENT - 13.

1066

SHRI ASHOK KUMAR BHANDARI; (B. FEBRUARY 20, 1949),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - PUNJAB '69; GRAD. I.E.T.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS '73.

SPECIALIZATIONS : MEDICAL ELECTRONIC INSTRUMENTATION.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1970-87; (ALSO TRAINING IN MEDICAL ELECTRONIC INSTRUMENTATION, BULGARIA, 1975 AND IN MICROPROCESSOR APPLICATIONS, ITALY, 1981); SCIENTIST EII, C.S.I.O. SINCE DECEMBFR, 1987.

PRESENT ACTIVITIES : R & D IN MEDICAL ELECTRONIC INSTRUMENTATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : BULGARIA, ITALY.

PUBLICATIONS & PATENTS : RESEARCH PAPER - 3, PATENTS TAKEN - 1, TECHNICAL REPORTS - 2.

AWARDS & DISTINCTIONS : NRDC INDEPENDENCE DAY AWARD FOR DIGITAL COLORIMETER, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 20.

1067

SHRI D J CHAKRAVERTY; (B. DECEMBER 23, 1938),

SCIENTIST EII, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN CRAFTSMANSHIP IN INSTRUMENTS MECHANIC - PANJAB '56; DIPLOMA IN MECHANICAL ENGINEERING - MADRAS '69; B.A. - PANJAB '77; A.M.I.E. MECHANICAL - INSTITUTION OF ENGINEERS, INDIA '80.

SPECIALIZATIONS : INSTRUMENT TECHNOLOGY; PROCESS INSTRUMENTATION; MECHANICAL ENGINEERING.

EXPERIENCE : SR. INSTRUCTOR, I.T.I., GWALIOR, 1958-60; SR. INSTRUCTOR AND SUPERVISOR, DIRECTORATE OF EMPLOYMENT & TRAINING, NEW DELHI, 1960-72; ASSOCIATE INSTRUCTOR, SENIOR INSTRUCTOR (C) AND SCIENTIST EI, C.S.I.O., 1972-90; SCIENTIST EII, C.S.I.O. SINCE NOVEMBER, 1990.

PRESENT ACTIVITIES : TEACHING INSTRUMENTS TECHNOLOGY AT ISTC.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TRAINING - 32.

1068

SHRI D S CHHABRA; (B. JANUARY 10, 1941),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. MATHEMATICS - AGRA '63; M.SC. HYDROMECHANICS - AGRA '64.

SPECIALIZATIONS : OPTICAL THIN FILM TECHNOLOGY; OPTICAL INSTRUMENTATION.

EXPERIENCE : DEMONSTRATOR, S.L.V. INTER COLLEGE, DEHRA DUN, 1960-62; J.S.A., I.R.D.E., DEHRA DUN, 1962-65; S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1965-89; (ALSO TRAINING IN OPTICAL THIN FILM TECHNOLOGY UNDER UNESCO, U.S.A. AND U.K., 1970); SCIENTIST EII, C.S.I.O. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 2, ARTICLES - 4, PROCESSES DEVELOPED - 13, PROCESSES UNDER UTILISATION - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, DESIGN & DEVELOPMENT - 27.

1069

SHRI ASHOK KUMAR DIMRI; (B. DECEMBER 15, 1948),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC PHYSICS - KANPUR '68; M.TECH. APPLIED OPTICS - I.I.T., DELHI '70; DIPLOMA IN BUSINESS MANAGEMENT - BHARTIA VIDYA BHAWAN '81.

SPECIALIZATIONS : THIN FILM TECHNOLOGY; VACUUM TECHNOLOGY; ANALYTICAL INSTRUMENTATION; ANALYTICAL SPECTROSCOPY.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1970-90; (ALSO HIGHER TRAINING UNDER DAAD, W. GERMANY, 1977-79); SCIENTIST EII, C.S.I.O. SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 15, DESIGN - 8.

1070

SHRI MIRZA MOHD FAZIL; (B. JULY 18, 1936),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - LUCKNOW '60; M.SC. PHYSICS - LUCKNOW '62.

SPECIALIZATIONS : DIGITAL ELECTRONICS; TESTING & MEASURING INSTRUMENTATION; AUTOMATIC TEST INSTRUMENTATION.

EXPERIENCE : LECTURER, INDUSTRIAL COLLEGE, LUCKNOW, 1962-63; TEST ENGINEER, ELECTRONICS LABORATORIES, LONDON, U.K., 1963-65; TECHNICAL ASSISTANT, M.R.C., LONDON, U.K., 1965-68; DEVELOPMENT ENGINEER, SPEYTECH LTD., LONDON, U.K., 1968-69; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1971-88; SCIENTIST EII, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF SCIENTIFIC INSTRUMENTS AND VLSI TESTING SYSTEM.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, ARTICLES - 3, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : CSIR SHIELD FOR DEVELOPMENT OF VLSI TESTING SYSTEM, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, TESTING - 3, DESIGN & DEVELOPMENT - 19.

1071

SHRI D P GOEL; (B. JANUARY 29, 1941),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '61; M.SC. (TECH.) ELECTRONIC ENGINEERING - ALLAHABAD '64.

SPECIALIZATIONS : ELECTRONIC ENGINEERING; PROCESS CONTROL INSTRUMENTATION; SENSORS FOR ROBOTICS AND FLEXIBLE MANUFACTURING SYSTEMS.

EXPERIENCE : S.R.F., I.I.T., BOMBAY, 1964-66; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1966-86; SCIENTIST EII, C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : SENSOR FOR ROBOTICS & FMS CONDITION MONITORING.

LANGUAGES : HINDI, ENGLISH, GERMAN, FRENCH.

VISITED : U.K., G.D.R., GERMANY, U.S.A., SINGAPORE.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 10.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA), 1982.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 27, R & D MANAGEMENT - 25, MAINTENANCE - 2.

1072

SHRI PRADUMAN KUMAR JAIN; (B. SEPTEMBER 16, 1945),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '64; M.SC. PHYSICS - DELHI '66.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION; GRATICULE, FINE SCALES AND METROLOGICAL GRATINGS TECHNOLOGY.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1966-91; SCIENTIST EII, C.S.I.O. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : R & D IN GRATICULE FINE SCALES & METROLOGICAL GRATINGS.

LANGUAGES : HINDI, ENGLISH.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 2, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 24.

1073

SHRI RAKESH KUMAR JAIN; (B. DECEMBER 22, 1947),

SCIENTIST EII, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '69; A.M.I.E. MECHANICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '80; M.E. MECHANICAL ENGINEERING - PUNJAB '90.

SPECIALIZATIONS : DIE AND MOULD MAKING; PRODUCTION ENGINEERING.

EXPERIENCE : GENERAL MECHANIC, M/S CUTLER HAMMER INDIA LTD., FARIDABAD, 1969; TECHNICAL ASSISTANT, M/S METERS AND INSTRUMENTS PVT. LTD., CHANDIGARH, 1969-75; ASSOCIATE INSTRUCTOR, SENIOR INSTRUCTOR (C) AND SCIENTIST EI, C.S.I.O., 1975-89; SCIENTIST EII, C.S.I.O. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : TEACHING; PRODUCTION OF DIE AND MOULDS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TOOLING & PRODUCTION ENGINEERING - 6, TEACHING, TOOL ENGG & PRODUCTION - 18.

1074

SHRI P S MALHOTRA; (B. JUNE 2, 1943),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '63; A.M.I.E. MECHANICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '66.

SPECIALIZATIONS : MECHANICAL DESIGN AND DEVELOPMENT OF INSTRUMENTS.

EXPERIENCE : J.S.A. AND S.S.A., INSTRUMENT RESEARCH AND DEVELOPMENT ESTABLISHMENT, MINISTRY OF DEFENCE, 1963-71; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1971-88; SCIENTIST EII, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MECHANICAL DESIGN AND DEVELOPMENT OF MEDICAL ELECTRONIC INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, PATENTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN AND DRAWING - 5, DESIGN & DEVELOPMENT - 22.

1075

DR GAUTAM MITRA; (B. JUNE 2, 1946),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - CALCUTTA '64; M.TECH. APPLIED OPTICS - CALCUTTA '67; PH.D. APPLIED OPTICS - CALCUTTA '79.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION; OPTICAL WORKSHOP TECHNOLOGY; OPTICAL IMAGE EVALUATION.

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C, AND SCIENTIST EI C.S.I.O., 1968-91; SCIENTIST EII, C.S.I.O. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : R & D IN MTF (MODULATION TRANSFER ACTION) EQUIPMENT & OPTICAL IMAGE EVALUATION SYSTEMS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : FRANCE, PAKISTAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 2, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 22.

1076

SHRI V M L NARASIMHAM; (B. SEPTEMBER 20, 1941),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - ANDHRA '61; M.SC. (TECH.) APPLIED PHYSICS - ANDHRA '64; M.SC. LENS DESIGN - UNIVERSITY OF TASMANIA, AUSTRALIA '69.

SPECIALIZATIONS : LENS DESIGN; OPTICAL INSTRUMENTATION.

EXPERIENCE : LECTURER, INSTITUTE OF ENGINEERING AND TECHNOLOGY, NEW DELHI, 1966-67; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1967-88; SCIENTIST EII, C.S.I.O. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : AUSTRALIA, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, PROCESSES DEVELOPED - 14, PROCESSES UNDER UTILISATION - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, DESIGN & DEVELOPMENT - 20, CONSULTANCY - 3.

1077

SHRI DHARAM SINGH PATHANIA; (B. FEBRUARY 1, 1936),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : GRAD. I.E.R.E. - INSTITUTION OF ELECTRONICS & RADIO ENGINEERS, U.K. '69; CHARTERED ENGINEER - INSTITUTION OF ELECTRONICS & RADIO ENGINEERS, U.K. '75.

SPECIALIZATIONS : ELECTRONIC MEASUREMENTS; DATA PROCESSING.

EXPERIENCE : ELECTRONICS ENGINEER, GENERAL ELECTRONICS, AMBALA, 1970; S.T.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1971-91; SCIENTIST EII, C.S.I.O. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : R & D IN DIGITAL ELECTORNIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 20.

1078

SHRI BASUDEO PRASAD; (B. JUNE 9, 1946),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - B.I.T. SINDRI '66; M.E. ELECTRONICS - PANJAB '85.

SPECIALIZATIONS : ELECTRONIC DEVICES; DIGITAL ELECTRONICS; INSTRUMENTATION; ENVIRONMENTAL SCIENCE.

EXPERIENCE : ASSTT. PROF, B.I.T. SINDRI, 1967-69; S.S.A., D.E.A.L., DEHRADUN, 1969-71; ASSOC. INSTRUCTOR, SENIOR INSTRUCTOR AND SCIENTIST EI, C.S.I.O., 1971-88; SCIENTIST EII, C.S.I.O. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : ENVIRONMENTAL MONITORING INSTRUMENTATION (R & D).

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 2, ARTICLES - 10, SCIENTIFIC BOOKS - 1, OTHER(PL. SPECIFY) - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 15, APPLIED RESEARCH - 3, DESIGN - 1, TESTING - 1, MAINTENANCE - 6, R & D MANAGEMENT - 4.

1079

MRS MOHANA RAMAMURTHY; (B. SEPTEMBER 9, 1944),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : LICENTIATE IN RADIO ENGG. - ANDHRA PRADESH '64; ADVANCED TRAINING IN INSTRUMENTATION (ELECTRONICS) - HYDERABAD SCIENCE SOCIETY '66; B.E. ELECTRONICS & COMMUNICATION ENGG. - OSMANIA '70; POST GRADUATE DIPLOMA IN ELECTRONICS ENGINEERING - PANJAB '79.

SPECIALIZATIONS : PULSE AND DIGITAL CIRCUITS; ANALYTICAL AND GEOPHYSICAL INSTRUMENTATION; ANALYTICAL, ELECTRONIC AND ELECTROOPTICAL INSTRUMENTATION.

EXPERIENCE : DEMONSTRATOR AND ASSTT. LECTURER, KAMALA NEHRU POLYTECHNIC FOR WOMEN, 1964-71; S.T.A., S.S.T.C.(I.S.R.O.), TRIVANDRUM, 1971-72; DEVELOPMENT ENGINEER, ELICO PVT. LTD, HYDERABAD, 1972-73; SCIENTIST B, N.G.R.I., HYDERABAD, 1973-75; SENIOR INSTRUCTOR AND SCIENTIST EI, C.S.I.O., 1975-86; SCIENTIST EII, C.S.I.O. SINCE JULY, 1986.

PRESENT ACTIVITIES : TEACHING; REPAIR AND MAINTENANCE OF ANALYTICAL, ELECTRONIC & ELECTRO OPTICAL INSTRUMENTS; R & D OF SCANNING TUNNELLING MICROSCOPE.

LANGUAGES : TAMIL, HINDI, TELUGU, MALAYALAM, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 19, ARTICLES - 10.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 7, DESIGN & DEVELOPMENT - 6, REPAIRS & MAINTENANCE - 4, IMPARTING TRAINING - 9.

1080

SHRI R K MOHAN RAO; (B. NOVEMBER 6, 1946),

SCIENTIST EII, SERVICE AND MAINTENANCE CENTRE, BOMBAY (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - ANDHRA '65; M.SC. (TECH) ELECTRONICS - ANDHRA '68.

SPECIALIZATIONS : MICROPROCESSOR AND PC BASED INSTRUMENTATION; DIGITAL PROCESS CONTROL INSTRUMENTATION FOR SUGAR INDUSTRY; QUALITY CONTROL INSTRUMENTATION FOR TEXTILE INDUSTRY.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1971-86; SCIENTIST EII, C.S.I.O. SINCE JANUARY, 1986.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 14, REPAIR & MAINTENANCE - 5.

1081

SHRI BEHARI LAL SHARMA; (B. APRIL 12, 1939),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '59; M.SC. PHYSICS - ALIGARH '63; PRAGYA. HINDI - MINISTRY OF HOME AFFAIRS, GOVT. OF INDIA '72.

SPECIALIZATIONS : EXPERIMENTAL NUCLEAR PHYSICS; ELECTRONIC INSTRUMENTATION; X-RAY ELECTRON MICROSCOPE INSTRUMENTATION.

EXPERIENCE : LECTURER, D.A.V. COLLEGE, AMRITSAR, 1963-64; J.S.A., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1964-88; (ALSO TRAINING IN NUCLEAR MAGNETIC RESONANCE TECHNIQUES, UNDER U.N.E.S.C.O., U.S.A., 1970-71 AND IN LATEST DEVELOPMENT TECHNIQUES OF ELECTRON MICROSCOPY AND ITS APPLICATION IN MATERIAL CHARACTERIZATION, UNDER DAAD EXCHANGE PROGRAMME, W. GERMANY, 1984); SCIENTIST EII, C.S.I.O. SINCE JUNE, 1988.

PRESENT ACTIVITIES : R & D IN INSTRUMENTATION.

LANGUAGES : PUNJABI, URDU, HINDI, ENGLISH.

VISITED : U.S.A., WEST GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, REPAIR & MAINTENANCE - 4, DESIGN & DEVELOPMENT - 19, IMPARTING TRAINING - 5, MATERIALS MANAGEMENT- 2.

1082

SHRI VINOD KUMAR SHARMA; (B. NOVEMBER 1, 1947),

SCIENTIST EII, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRONICS AND ELECTRICAL COMMUNICATION - PANJAB '69; M.SC. (ENGG.) ELECTRONICS - PANJAB '83.

SPECIALIZATIONS : ELECTRONICS; MEDICAL INSTRUMENTATION; MICROPROCESSOR BASED INSTRUMENTATION.

EXPERIENCE : TRAINEE, S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.O., 1969-91; SCIENTIST EII, C.S.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : TEACHING INDUSTRIAL ELECTRONICS AT I.S.T.C., C.S.I.O.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 16, IMPARTING TRAINING - 4.

1083

SHRI RAMESH CHANDER AGNIHOTRI; (B. OCTOBER 2, 1955),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '76; POST DIPLOMA IN INDUSTRIAL ELECTRONICS - I.S.T.C., CHANDIGARH '77; A.M.I.E. ELECTRONICS, INSTITUTION OF ENGINEERS, INDIA '83.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; DIGITAL ELECTRONIC SYSTEMS; COMPUTER TECHNOLOGY.

EXPERIENCE : TRAINEE ENGINEER, M/S CONTINENTAL DEVICES (INDIA) LTD., NEW DELHI, 1977-78; S.T.A., ASSOCIATE INSTRUCTOR (B) AND TECHNICAL OFFICER (C), C.S.I.O., 1978-89; TECHNICAL OFFICER (EI), C.S.I.O. SINCE MARCH, 1989.

PRESENT ACTIVITIES : DEVELOPMENT OF ELECTRONIC EQUIPMENTS; TEACHING INDUSTRIAL ELECTRONICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 9, TEACHING - 8, PRODUCTION - 1, IMPARTING TRAINING - 12.

1084

SHRI RAJENDRA KUMAR AGRAWAL; (B. JULY 2, 1944),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - ALIGARH '65.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : SCIENTIST EI, C.S.I.O. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF ELECTRONIC INSTRUMENTS AND SYSTEMS.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPER - 1, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 25.

1085

SHRI DEVINDER SINGH ANAND; (B. OCTOBER 23, 1945),

SENIOR INSTRUCTOR (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : APPRENTICESHIP - ORDNANCE FACTORY TRAINING INSTITUTE, KANPUR '67; DRAUGHTSMAN TRAINEE - ORDNANCE FACTORY TRAINING INSTITUTE, AMBARNATH, '70; PATTERN DESIGN AND MANUFACTURE - NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY, RANCHI '78.

SPECIALIZATIONS : DESIGN OF TOOLS JIGS & FIXTURES.

EXPERIENCE : SENIOR DRAUGHTSMAN, ORDNANCE EQUIPMENT FACTORY, KANPUR, 1970-74; SENIOR DRAUGHTSMAN, SCOOTERS INDIA LTD., LUCKNOW, 1974-78; ASSOCIATE INSTRUCTOR (B) AND SENIOR INSTRUCTOR (C) C.S.I.O., 1978-88; SENIOR INSTRUCTOR (EI) C.S.I.O. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : DESIGN OF TOOLS, JIGS AND FIXTURES; TEACHING PRESS TOOL TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 8, TEACHING - 9, IMPARTING TRAINING - 12

1086

SHRI SURINDER KUMAR ANGRA; (B. APRIL 12, 1949),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - PANJABI '71; M.SC. PHYSICS - PANJABI '73; POST M.SC. DIPLOMA IN SPACE SCIENCES - PANJABI '74; M.TECH. APPLIED OPTICS - I.I.T., DELHI '76.

SPECIALIZATIONS : ANALYTICAL INSTRUMENTATION; PLASMA BASED ETCHING INSTRUMENTATION.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1977-90; SCIENTIST EI, C.S.I.O. SINCE MARCH, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 6, DESIGN & DEVELOPMENT - 7.

1087

SHRI R C ARORA; (B. NOVEMBER 20, 1951),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRICAL - PANJAB '72; M.SC. (ENGG.) ELECTRONICS AND CONTROL SYSTEMS - KURUKSHETRA '74; CERTIFICATE COURSE IN FRENCH - KURUKSHETRA '75.

SPECIALIZATIONS : INSTRUMENTATION & CONTROL; ELECTRICAL ENGINEERING; SYSTEM RELIABILITY; COMPUTER PROGRAMMING.

EXPERIENCE : ASSOCIATE LECTURER AND LECTURER, REGIONAL ENGINEERING COLLEGE, KURUKSHETRA, 1974-80; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1980-90; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : TEACHING COMPUTERS, ELECTRONICS & ELECTRICAL ENGG.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH REPORTS - 2.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF ENGINEERS (INDIA); FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA; LIFE MEMBER, ALL INDIA COUNCIL OF TECH EDUCATION, NEW DELHI.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 9, R & D MANAGEMENT - 5, TEACHING - 14.

1088

SHRI BHUPINDER SINGH BEDI; (B. APRIL 1, 1941),

SENIOR INSTRUCTOR (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PANJAB '62.

SPECIALIZATIONS : PROCESS ENGINEERING; INSTRUMENT TECHNOLOGY; AUDIOVISUAL TEACHING AIDS.

EXPERIENCE : INSTRUCTOR, RAMGARHIA POLYTECHNIC, PHAGWARA, 1962; SENIOR PLANNER (A), H.M.T., PINJORE, 1962-68; SCIENTIST B AND INSTRUCTOR, C.S.I.O., 1968- 87: SENIOR INSTRUCTOR (EI), C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : R & D; TEACHING PRECISION INSTRUMENT TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 19, PRODUCTION PLANNING - 6, IMPARTING TRAINING - 22.

1089

DR LALIT M BHARADWAJ; (B. JULY 7, 1952),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - UDAIPUR '72; M.SC. CHEMISTRY - UDAIPUR '74; PH.D. PHYSICAL CHEMISTRY - RAJASTHAN '78.

SPECIALIZATIONS : ELECTRON AND ION BEAM TECHNIQUES FOR MICROELECTRONICS AND SURFACE ANALYSIS; REACTION MECHANISM; ENZYME/ION SELECTIVE ELECTRODES.

EXPERIENCE : RESEARCH ASSOCIATE, I.I.T., KANPUR, 1978; RESEARCH ASSOCIATE, A.I.I.M.S., DELHI, 1979-82; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1982-87; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D OF ION SENSITIVE ELECTRODES/SURFACE ANALYTICAL INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 3, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 8, DESIGN & DEVELOPMENT - 18, TECH. DEV. - 8. TEACHING - 2, COMPUTER PROCESSING - 1.

1090

SHRI JAGDISH KUMAR CHHABRA; (B. JULY 4, 1947),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '67; M.A. ENGLISH - PANJAB '73; A.M.I.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '76; DIPLOMA IN MARKETING MANAGEMENT - PANJAB '80.

SPECIALIZATIONS : OPTOELECTRONIC INSTRUMENTATION; FIBER OPTICS COMMUNICATION; ANALYTICAL INSTRUMENTATION; ELECTRONICS.

EXPERIENCE : TECHNICIAN AND SENIOR LAB. TECHNICIAN, P.G. INSTITUTE OF MEDICAL EDUCATION AND RESEARCH, CHANDIGARH, 1967-76; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1976-91; SCIENTIST EI, C.S.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN FIBER OPTICS COMMUNICATION SYSTEMS.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, DESIGN & DEVELOPMENT - 10, TESTING - 3, REPAIR & MAINTENANCE - 3.

1091

SHRI LAL CHAND DEV; (B. MAY 10, 1939),

SENIOR INSTRUCTOR (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MACHINESHOP ENGINEERING - M.T.P.F. INSTITUTE, BOMBAY '62; ASSOCIATE MEMBER OF THE INDIAN INSTITUTE OF PRODUCTION ENGINEERS.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY; SCIENTIFIC INSTRUMENTATION; MAINTENANCE OF MACHINE TOOLS; TOOLS DESIGN AND FABRICATION.

EXPERIENCE : FOREMAN, SCIENTIFIC INSTRUMENTS CO. LTD., ALLAHABAD, 1962-63; FOREMAN, I.I.T., DELHI, 1963-67; ASSOCIATE INSTRUCTOR AND SENIOR INSTRUCTOR (C), C.S.I.O., 1967-88; SENIOR INSTRUCTOR (EI), C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D; TEACHING INSTRUMENTATION TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 5, IMPARTING TRAINING - 13, DESIGN & DRAWING - 7.

1092

SHRI GURDIP SINGH DHILLON; (B. SEPTEMBER 20, 1936),

LIBRARY OFFICER (EI), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - PANJAB '57; B.LIB.SC. - PANJAB '62; CERTIFICATE IN RUSSIAN LANGUAGE - PANJAB '66; M.A. HISTORY - PANJAB '71; M.LIB.SC. - PANJAB '76.

SPECIALIZATIONS : DOCUMENTATION; LIBRARY ORGANISATION.

EXPERIENCE : LIBRARIAN, KHALSA TRAINING COLLEGE, 1962-63; LIBRARIAN, G.G.N. COLLEGE, LUDHIANA, 1963-65; SR. LIBRARIAN, S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1965-88; LIBRARY OFFICER (EI), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DOCUMENTATION; LIBRARY ORGANISATION.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 22, LIBRARY MANAGEMENT - 28.

1093

SHRI V P GIRIDHAR; (B. OCTOBER 28, 1949),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION , CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS AND TELE-COMMUNICATION - MYSORE '72.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; HIGH VOLTAGE ELECTRONICS; SIGNAL PROCESSING; REGULATED POWER SUPPLIES; ULTRA HIGH VACUUM TECHNOLOGY.

EXPERIENCE : SHIFT AND MAINTENANCE ENGINEER, BHIWANI TEXTILE MILLS, BHIWANI (HARYANA), 1972-73; APPRENTICE ELECTRONICS ENGINEER AND ASSISTANT ELECTRONICS ENGINEER, O.S.A.W., AMBALA, 1973-79; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1979-89; SCIENTIST EI, C.S.I.O. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT & MAINTENANCE.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : BULGARIA, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 2, POPULAR SCIENCE BOOKS - 3, ELECTRONICS-TODAY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 20, OPERATION - 21, DESIGN - 20, TESTING - 20, TECHNICAL DEV. - 17, QUALITY CONTROL - 20, PLANNING - 10, COMPUTER PROC. - 3, MAINTENANCE - 12, PRODUCTION - 6, IND. MANAGEMENT - 6.

1094

SHRI PRAMOD KUMAR GOEL; (B. DECEMBER 15, 1948),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '68; M.SC. PHYSICS - MEERUT '70.

SPECIALIZATIONS : OPTICAL SYSTEM DESIGN & DEVELOPMENT; COMPUTER SOFTWARE; DESIGN & IMAGE EVALUATION OF HIGHLY DIFFRACTION-LIMITED OPTICAL SYSTEMS; OPTICAL FABRICATION AND TESTING; HOLOGRAPHY.

EXPERIENCE : GRADUATE APPRENTICE, J.R.F., J.S.A., SR FOREMAN, SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1971-91; SCIENTIST EI, C.S.I.O., SINCE MARCH, 1991.

PRESENT ACTIVITIES : R & D OF HIGHLY DIFFRACTION-LIMITED OPTICAL SYSTEMS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, DESIGN & TECHNICAL DEV. - 20, TESTING - 2, COMPUTER PROC. - 5, R & D MANAGEMENT - 1.

1095

SHRI JITENDER GUPTA; (B. AUGUST 10, 1951),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '71.

SPECIALIZATIONS : TOOL AND DIE MAKING.

EXPERIENCE : MECHANICAL SUPERVISOR, M/S TELEFUNKEN INDIA LTD., BALLABGARH, HARAYANA, 1971-76; MECHANICAL ENGINEER, POROS ELECTRONICS(P) LTD., NEW DELHI, 1976-77; ASSOCIATE INSTRUCTOR (B) AND SRENIOR INSTRUCTOR (C), C.S.I.O., 1977-88; TECHNICAL OFFICER (EI), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : IMPARTING TRAINING TO STUDENTS IN TOOL & DIE MAKING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TEACHING - 10, TOOL ROOM - 5.

1096

SHRI NAVIN CHAND HIRA; (B. MAY 25, 1947),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '66.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY; INSTRUMENT TECHNOLOGY; PRODUCTION ENGINEERING; MACHINE TOOL DESIGN.

EXPERIENCE : SUPERVISOR TRAINEE, M & I (P)LTD., CHANDIGARH, 1966-69; M/C TOOLS INSTRUCTOR Y.M.C.A. INSTITUTE OF ENGINEERING, FARIDABAD, 1969-73; (ALSO INPLANT TRAINEE, M/S FR. DECKEL AND WEILER KG, W. GERMANY, 1969-70); PRODUCTION FOREMAN, PRINTERS HOUSE (P)LTD., BALLABGARH, HARYANA, 1973; ASSOC. INSTRUCTOR AND SENIOR INSTRUCTOR (C), C.S.I.O., 1973-89; (ALSO TRAINING IN INSTRUMENTATION, SWITZERLAND, 1976-77); TECHNICAL OFFICER (EI), C.S.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : R & D; TEACHING INSTRUMENT TECHNOLOGY.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : WEST GERMANY, SWITZERLAND.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 2, CONSULTANCY - 1, TEACHING - 16, PRODUCTION - 3, IMPARTING TRAINING - 21.

1097

SHRI SURESH CHAND JAIN; (B. MAY 31, 1947),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - PANJAB '67; M.SC. PHYSICS - PANJAB '68; M.TECH. APPLIED OPTICS - I.I.T., DELHI '70.

SPECIALIZATIONS : ELECTROOPTICAL INSTRUMENTATION; OPTICAL WORKSHOP TECHNOLOGY; GRATICULATION; FIBER OPTICS TECHNOLOGY; OPTICAL FIBER MEASUREMENTS.

EXPERIENCE : S.S.A., I.I.T., DELHI, 1970; S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1970-81; OPTICAL ENGINEER, SURVEY OF INDIA, 1981-83; SCIENTIST C, C.S.I.O., 1981-88; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN FIBER OPTICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, DESIGN & DEVELOPMENT - 20.

1098

SHRI M G JOSHI; (B. FEBRUARY 10, 1935),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - ALIGARH '55; M.SC. (TECH.) APPLIED PHYSICS - CALCUTTA '61.

SPECIALIZATIONS : EDITING AND PUBLICATION OF SCIENTIFIC REPORTS; R & D MANAGEMENT; ELECTRONIC INSTRUMENTATION.

EXPERIENCE : ASSISTANT ENGINEER, MAHARASHTRA STATE ELECTRICITY BOARD, MAHARASHTRA, 1962-66; PLANT ENGINEER, M/S INDO-AMERICAN ELECTRICALS LTD., DURGAPUR, 1967-68; S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1969-86; SCIENTIST EI, C.S.I.O. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : R & D MANAGEMENT.

LANGUAGES : PUNJABI, HINDI, URDU, BENGALI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 1, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, R & D MANAGEMENT - 10, CONSTRUCTION - 2, TESTING - 8, QUALITY CONTROL - 6, MAINTENANCE - 3, IND. MGMT. - 2, TECHNO-ECONOMIC SURVEYS - 1, EDITING - 6, TEACHING - 2, DESIGN & DEV. - 2.

1099

SHRI VARINDER PAL SINGH KALSI; (B. MARCH 14, 1956),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '76.

SPECIALIZATIONS : TOOL AND DIE MAKING; PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : TECHNICAL ASSISTANT, SEMICONDUCTOR DEVICES, PUNJAB, 1976-77; S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1977-91; SCIENTIST EI, C.S.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : DESIGN & FABRICATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 14, TECH. DEV. - 6, TESTING - 1, QUALITY CONTROL - 1, MAINTENANCE - 1, PRODUCTION - 1, TEACHING - 3.

1100

SHRI ATAM DARSHAN KAUL; (B. APRIL 1, 1954),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) MECHANICAL - DELHI '75; M.SC. (ENGG) MECHANICAL - PANJAB '80.

SPECIALIZATIONS : OPTOMECHANICAL DESIGN; FIBER OPTICS.

EXPERIENCE : SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1976-89; SCIENTIST EI, C.S.I.O. SINCE MARCH, 1989.

PRESENT ACTIVITIES : OPTOMECHANICAL SYSTEM DESIGN.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : WEST GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 8, DESIGN & DEVELOPMENT - 14.

1101

SHRI MOHINDER PRAKASH KHANNA; (B. OCTOBER 20, 1939),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '59; M.SC. MATHEMATICS - AGRA '65; DIPLOMA IN LIBRARY SCIENCE - PANJAB '67; ASSOCIATESHIP IN DOCUMENTATION & REPROGRAPHY - INSDOC, NEW DELHI '68.

SPECIALIZATIONS : DOCUMENTATION; EDITING.

EXPERIENCE : SR. LIBRARIAN, S.T.A., JR. DOCUMENTATION OFFICER, DOCUMENTATION OFFICER AND SENIOR DOCUMENTATION OFFICER (C), C.S.I.O., 1979-86; SCIENTIST EI, C.S.I.O. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : DOCUMENTATION; EDITING.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN, FRENCH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 15, DOCUMENTATION - 12, PUBLICATION - 8.

1102

SHRI SUSHIL KUMAR; (B. MARCH 7, 1952),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - PUNJABI '73; M.TECH APPLIED OPTICS - I.I.T., DELHI '75; CERTIFICATE IN GERMAN LANGUAGE - PUNJAB '78; CERTIFICATE IN GERMAN LANGUAGE - GOETHE INSTITUTE, W.GERMANY '82.

SPECIALIZATIONS : APPLIED OPTICS; HOLOGRAPHY; LASER APPLICATIONS & OPTICAL TESTING; FIBER OPTIC HOLOGRAPHY.

EXPERIENCE :. S.S.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1976-91; SCIENTIST EI, C.S.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : COHERENT OPTICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : FELLOW, OPTICAL SOCIETY OF INDIA, 1989; MEMBER, INDIAN PHYSICS ASSOCIATION, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, DESIGN - 17, TECH. DEV. - 17.

1103

SHRI S K MAGO; (B. JANUARY 6, 1941),

TECHNICAL OFFICER (EI), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN CRAFTSMANSHIP - MINISTRY OF LABOUR AND EMPLOYMENT, INDIA '59; DIPLOMA IN MACHINE SHOP ENGINEERING (INT) - CITY & GUILDS INSTITUTE, LONDON, U.K. '62; B.A. - DELHI '71; CERTIFICATE IN SPECIALIST TECHNOLOGIST COURSE - UNIVERSITY OF TECHNOLOGY, LAUGHBOROUGH, U.K. '83.

SPECIALIZATIONS : MACHINE SHOP ENGINEERING.

EXPERIENCE : CHARGEMAN, SOLID STATE PHYSICS LABORATORY AND DEFENCE SCIENCE LABORATORY, DELHI, 1960-71; S.T.A., I.I.T., DELHI, 1971-73; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1973-89; TECHNICAL OFFICER (EI), C.S.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : PRECISION WORKSHOP TECHNOLOGY AND FABRICATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.K., FRANCE, ITALY, BULGARIA, YUGOSLAVIA, USSR.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D - 27, R & D MGMT. - 14, SHOP FLOOR MANAGEMENT - 30.

1104

SHRI NAHAR SINGH MEHLA; (B. NOVEMBER 14, 1949),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '70; M.SC. PHYSICS - DELHI '72; M.TECH. APPLIED OPTICS - I.I.T., DELHI '76.

SPECIALIZATIONS : APPLIED OPTICS; FIBER OPTICS; OPTICAL WORKSHOP TECHNOLOGY; TESTING & EVALUATION OF PRECISION OPTICAL COMPONENTS; FIBER OPTICS TECHNOLOGY; INSTRUMENTATION; OPTICAL FIBER MEASUREMENTS; FIBER SENSORS AND INTEGRATED OPTICS.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1977-89; SCIENTIST EI, N.C.L. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN

PUBLICATIONS & PATENTS : RES. PAPERS - 21. PROCESSES DEVELOPED - 1, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN & DEVELOPMENT - 18.

1105

SHRI T R NATARAJAN; (B. FEBRUARY 20, 1948),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS - MADRAS '71; P.G. DIPLOMA IN MEDICAL INSTRUMENTATION - MADRAS '73; M.SC. (ENGG.) ELECTRONICS - PANJAB '78.

SPECIALIZATIONS : BIOMEDICAL INSTRUMENTATION.

EXPERIENCE : S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1973-87; (ALSO TRAINING IN MEDICAL DIAGNOSTIC ULTRASOUND, UNDER COLOMBO PLAN, U.K., 1979- 80); SCIENTIST EI, C.S.I.O. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D IN BIOMEDICAL INSTRUMENTATION.

LANGUAGES : TAMIL, HINDI, ENGLISH.

VISITED : U.K., LIBYA.

PUBLICATIONS & PATENTS : RES. PAPERS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 14, TEACHING - 3.

1106

SHRI SIVAGAMI NATHAN; (B. FEBRUARY 15, 1946),

SCIENTIST EI, SERVICE AND MAINTENANCE CENTRE, JAIPUR (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : L.M.F. - MADRAS '61; GRAD. I.E.T.E. - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '72.

SPECIALIZATIONS : MEDICAL ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.L.A., C.E.C.R.I., 1965-68; J.T.A., S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1968-87; SCIENTIST EI, C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : REPAIR OF INSTRUMENTS.

LANGUAGES : TAMIL, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 18, REPAIR & MAINTENANCE - 25.

1107

SHRI S C NIJHAWAN; (B. DECEMBER 4, 1942),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : A.M.I.E. ELECTRONICS AND COMMUNICATION ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '74.

QUALIFICATIONS : A.M.I.E. ELECTRONICS AND COMMUNICATION ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '74.

SPECIALIZATIONS : DIGITAL ELECTRONICS; MICROCOMPUTER-BASED MEDICAL AND DIAGNOSTIC INSTRUMENTATION

EXPERIENCE : INSPECTOR, DIRECTORATE OF INDUSTRIES, HARYANA, 1965-67; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1967-88; SCIENTIST EI, C.S.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : RESEARCH, DESIGN, DEVELOPMENT AND TESTING OF DIGITAL/MICROPROCESSOR BASED MEDICAL ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 8, TESTING - 8, COMPUTER PROCESSING - 6, INSPECTION & TESTING - 2, COMPILATION & INFORMATION PROCESSING - 8, DESIGN & DEVELOPMENT - 15.

1108

SHRI M D PHUKAN; (B. JUNE 1, 1947),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C.

SPECIALIZATIONS : MACHINE SHOP; TOOL ROOM.

EXPERIENCE : J.T.A., S.T.A., ASSOCIATE INSTRUCTOR AND SENIOR INSTRUCTOR (C), C.S.I.O., 1968-89; TECHNICAL OFFICER (EI), C.S.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : TEACHING INSTRUMENTATION TECHNOLOGY.

LANGUAGES : ASSAMESE, HINDI, BENGALI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 19, IMPARTING TRAINING - 22.

1109

SHRI KULDIP PRAKASH; (B. JUNE 18, 1941),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '61; A.M.I.I.M. METALLURGICAL ENGG. - INDIAN INSTITUTE OF METALS, CALCUTTA '77.

SPECIALIZATIONS : METALLOGRAPHIC EVALUATION; QUALITY CONTROL; METALLURGICAL TESTING; SPECTROGRAPHIC ANALYSIS.

EXPERIENCE : RESEARCH ASSISTANT, B & R. RESEARCH LABORATORY, CHANDIGARH, 1962-68; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O. 1968-89; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : APPLIED RESEARCH; QUALITY CONTROL, DESIGN & TESTING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 2, SCIENTIFIC BOOKS - 1, ARTICLES - 12, PROCESSES DEVELOPED - 4, PROCESS UNDER UTILISATION - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23, TECH. DEV. - 23, R & D MANAGEMENT - 20, TESTING - 23, QUALITY CONTROL - 23.

1110

SHRI NATHAI RAM; (B. SEPTEMBER 20, 1945),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - GORAKHPUR '64.

SPECIALIZATIONS : X-RAY CRYSTALLOGRAPHY; X-RAY SPECTROSCOPY; ELECTRON DIFFRACTION; MICROSCOPY; X-RAY INSTRUMENTATION; MICROELECTRONICS; X-RAY LITHOGRAPHY; ION BEAM TECHNIQUES.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, C.S.I.O., 1977-88; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

VISITED : GERMANY, FRANCE, FINLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 12, DESIGN - 16, TECH. DEV. - 6, R & D MANAGEMENT - 6, TESTING - 10, TEACHING - 3, MAINTENANCE - 8

1111

SHRI M S R S SARMA; (B. JUNE 27, 1938),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '57; M.SC. (APPLIED) PHYSICS - JABALPUR '68.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION; STRUCTURE OF SOLIDS & APPLIED X-RAYS.

EXPERIENCE : SUPERVISOR III AND J.S.A., I.R.D.E., DEHRA DUN, 1957-61; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1961-88; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : OPTICAL INSTRUMENTATION & TESTING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 31, APP. RES. - 31, DESIGN - 26, TECHNICAL DEV. - 26, TESTING - 36, MAINTENANCE - 3, PRODUCTION - 5.

1112

SHRI R N SENGUPTA; (B. MARCH 30, 1948),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - CALCUTTA '69; B.TECH. APPLIED PHYSICS - CALCUTTA '72; M.TECH. APPLIED PHYSICS - CALCUTTA '74.

SPECIALIZATIONS : MEDICAL INSTRUMENTATION; METEOROLOGICAL INSTRUMENTATION; INSTRUMENTS DESIGN.

EXPERIENCE : J.S.O., INDIAN INSTITUTE OF TROPICAL METEOROLOGY, POONA, 1975-79; SCIENTIST B AND SCIENTIST C, C.S.I.O., 1979-89; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D IN MEDICAL ELECTRONIC INSTRUMENTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, SCI. REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., DESIGN, TECHNICAL DEV. AND DESIGN & DEVELOPMENT - (TOTAL: 14 YEARS).

1113

SHRI BIPAN DEV SHARMA; (B. APRIL 4, 1943),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN DRAUGHTSMANSHIP - N.C.V.T. '60; DIPLOMA IN MECHANICAL ENGINEERING - PANJAB '77.

SPECIALIZATIONS : OPTICAL AND ELECTROOPTICAL INSTRUMENTATION.

EXPERIENCE : DRAUGHTSMAN, JAYNA TIME INDUSTRIES PVT. LTD., DELHI, 1960-61; DRAUGHTSMAN, FEDDERS LLOYDS PVT. LTD., DELHI, 1961-62; DRAUGHTSMAN, MILITARY ENGG. SERVICE, NEW DELHI, 1962; ASSTT. DRAUGHTSMAN, PROTOTYPE PRODUCTION AND TRAINING CENTRE, NEW DELHI, 1962-64; SR. DRAUGHTSMAN, J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1964-91: SCIENTIST EI, C.S.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF SCIENTIFIC INSTRUMENTS, ESPECIALLY OPTICS BASED INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 27, TECHNICAL DEV. - 27.

1114

SHRI S M SHARMA; (B. SEPTEMBER 15, 1936),

INFORMATION OFFICER (EI), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - PANJAB '59; M.A. POLITICAL SCIENCE - PANJAB '70; DIPLOMA IN PUBLIC RELATIONS - B.V. BHAWAN, BOMBAY '81.

SPECIALIZATIONS : INDUSTRIAL LIAISON & PUBLIC RELATIONS; TECHNOLOGY UTILIZATION.

EXPERIENCE : L.D.C. AND P.A. TO SECRETARY, C.S.I.R., 1957-64; P.A. TO DIRECTOR, INFORMATION OFFICER AND INFORMATION OFFICER (C), C.S.I.O., 1964-87; INFORMATION OFFICER (EI), C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : INDUSTRIAL LIAISON & PUBLIC RELATIONS.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS . BOOKLET - 1, EDITOR BI-MONTHLY CSIO NEWS.

PROFESSIONAL EXPERIENCE(IN YEARS) : ADMN. - 14, PUBLIC RELATIONS AND TECHNOLOGY UTILISATION - 16, OFFICE MANAGEMENT - 14, IND. LIAISON & PUBLIC RELATIONS - 19.

1115

SHRI H S SIDHU; (B. AUGUST 15, 1939),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PANJAB '62.

SPECIALIZATIONS : MACHINE TOOL ENGINEERING; PRODUCTION ENGINEERING; INSTRUMENT TECHNOLOGY.

EXPERIENCE : ASST. LECTURER, B.N.K.G. POLYTECHNIC & HIGHER SECONDARY SCHOOL, PATIALA, 1962-63; SUPERVISOR, H.M.T. LTD., PINJORE, 1963-69; SCIENTIST B AND SENIOR INSTRUCTOR (C), C.S.I.O., 1969-87; TECHNICAL OFFICER (EI), C.S.I.O. SINCE JUNE, 1987.

PRESENT ACTIVITIES : IMPARTING TECHNICAL TRAINING TO STUDENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 2, PRODUCTION - 6, TEACHING - 11, IMPARTING TRAINING - 21.

1116

SHRI KULVINDER SINGH; (B. JANUARY 8, 1956),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. ENGG. (HONS.) ELECTRONICS & ELECTRICAL COMMUNICATION - PANJAB '77; M.B.A. - P.A.U., LUDHIANA '79.

SPECIALIZATIONS : R & D MANAGEMENT; ELECTRONICS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, C.S.I.O., 1979-88; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D MANAGEMENT; MARKET RESEARCH; TECHNICAL WRITING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 1, R&D MGMT. - 8, PLANING & MANAGEMENT - 11,TECHNO-ECONOMIC SURVEYS - 5, DOCUMENTATION - 2.

1117

SHRI SATNAM SINGH; (B. SEPTEMBER 30, 1949),

TECHNICAL OFFICER (EI), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '70;

SPECIALIZATIONS : PRESS TOOL AND MOULD DESIGN; TECHNICAL CURRICULAM PREPARATION; COMPUTERISED NUMERICAL CONTROL TEACHING.

EXPERIENCE : TOOL MAKER, M/S TELEFUNKEN INDIA LTD., BALLABGARH, 1970-71; DRAUGHTSMAN, M/S AMERICAN UNIVERSAL ELECTRIC (INDIA) LTD., FARIDABAD, 1971-73; TOOL ROOM INCHARGE, M/S KHALSA METALIC FABRICS, RAJPURA, 1973-75; ASSOCIATE INSTRUCTOR AND SENIOR INSTRUCTOR (C). C.S.I.O., 1975-88; (ALSO TRAINING IN DIE & MOULD DESIGN, SWITZERLAND, 1981); TECHNICAL OFFICER (EI), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : IMPARTING TRAINING TO STUDENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : GERMANY, SWITZERLAND.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 2, TEACHING - 8, PRODUCTION - 3, IMPARTING TRAINING - 15.

1118

SHRI MADAN LAL SINGLA; (B. JANUARY 10, 1951),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PUNJABI '71; M.SC. CHEMISTRY - PUNJABI '73.

SPECIALIZATIONS : AGRICUTURAL ELECTRONICS & METALLURGICAL INSTRUMENTATION; TESTING & ANALYSIS OF METALS AND ALLOYS; DEVELOPMENT OF NEW ALLOYS.

EXPERIENCE : LECTURER, NABHA, PUNJAB, 1973; J.S.A., S.S.A., S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.O., 1973-90; SCIENTIST EI. C.S.I.O. SINCE FEBRUARY, 1990

PRESENT ACTIVITIES : ANALYSIS OF METALS & ALLOYS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 4, PATENTS TAKEN - 1, PROCESSES DEVELOPED - 10, PROCESSES UNDER UTILISATION - 8.

AWARDS & DISTINCTIONS : WISITEX AWARD, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 20, DESIGN - 20, TECHNICAL DEV. - 20, TESTING - 20, QUALITY CONTROL - 20, TECH. TRANSFER - 20.

1119

SHRI YOGESH CHANDER SUD; (B. AUGUST 3, 1949),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRONICS AND ELECTRICAL COMMUNICATION - PANJAB '70; M.SC. (ENGG.) ELECTRONICS - PANJAB '79.

SPECIALIZATIONS : MICROPROCESSOR BASED ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1971- 82; (ALSO TRAINING IN MICRO-COMPUTER CONTROL FOR RADIAL GRATING GENERATING APPARATUS, UNDER COLOMBO PLAN, AUSTRALIA, 1980); SCIENTIST EI. C.S.I.O. SINCE DECEMBER, 1982.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF MICROPROCESSOR BASED ELECTRONIC INSTRUMENTS SYSTEMS

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, DESIGN - 16, TECHNICAL DEV. - 16, DESIGN & DEVELOPMENT - 19.

1120

SHRI P V TALWAR; (B. AUGUST 2, 1947),

SCIENTIST EI, SERVICE AND MAINTENANCE CENTRE, MADRAS (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.E. ELECTRICAL - MYSORE '68; M.S. ELECTRONICS - OHIO STATE UNIVERSITY, U.S.A. '70.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION.

EXPERIENCE : POOL OFFICER, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1971-88; SCIENTIST EI, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRONIC INSTRUMENTATION.

LANGUAGES : KANNADA, TAMIL, TELUGU, MALAYALAM, HINDI, ENGLISH.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, CONSULTANCY - 1, MAINTENANCE - 14, APPLIED RESEARCH - 2, REPAIR & MAINTENANCE - 17.

1121

SHRI KUNJUMON K THARIYAN; (B. JANUARY 18, 1949),

TECHNICAL OFFICER (EI), I.S.T.C.(CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.)

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '69.

SPECIALIZATIONS : DIE AND MOULD MAKING.

EXPERIENCE : TRAINEE ENGINEER AND ENGINEER, B.K. PLASTICS INDUSTRIES, CALCUTTA AND B.K. PLASTICS (P) LTD., GHAZIABAD, U.P., 1969-74; ENGINEER INCHARGE, SUNSHINE PLASTICS INDUSTRIES, MADRAS, 1974-75; WORKS INCHARGE, B.K. PLASTICS (P) LTD. DELHI, 1975-76; ASSOCIATE INSTRUCTOR AND SENIOR INSTRUCTOR (C), C.S.I.O., 1976-88; TECHNICAL OFFICER (EI), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : IMPARTING TRAINING IN DIE & MOULD MAKING.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, QUALITY CONTROL - 5, PRODUCTION - 5, MAINTENANCE - 5, TEACHING - 5, IMPARTING TRAINING - 14.

1122

SHRI SAHAB SINGH TOMAR; (B. JANUARY 15, 1946),

SCIENTIST EI, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN AERONAUTICAL ENGINEERING-NO. 2 GROUND TRAINING SCHOOL, I.A.F. MADRAS '66; DIPLOMA IN MECHANICAL ENGINEERING - I.A.F. '77; A.M.I.E. MECHANICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '77; DIPLOMA IN INDUSTRIAL RELATION AND PERSONNEL MANAGEMENT '80.

SPECIALIZATIONS : PRECISION MACHINING.

EXPERIENCE : NON-COMMISSIONED OFFICER, INDIAN AIR FORCE, 1963-78; ASSOCIATE INSTRUCTOR (B) AND SENIOR INSTRUCTOR (C), C.S.I.O., 1978-88; SCIENTIST EI, C.S.I.O. SINCE NOVERMBER, 1988.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INSTRUMENT TECHNOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.A.E., U.S.S.R., IRAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIRING & MAINTENANCE - 15, TEACHING - 9, IMPARTING TRAINING - 12.

1123

SHRI KALWANT SINGH UBHI; (B. AUGUST 4, 1950),

SCIENTIST EI, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C. '69; DIPLOMA IN INDUSTRIAL MANAGEMENT - BRITISH INSTITUTE, BOMBAY '78.

SPECIALIZATIONS : MACHINE TOOLS, JIGS AND FIXTURES.

EXPERIENCE : TECHNICAL ASSISTANT, ESCORTS LTD., PATIALA, 1969-71; S.T.A., MOLINS OF INDIA, MOHALI, PUNJAB, 1971-76; ASSOCIATE INSTRUCTOR AND SENIOR INSTRUCTOR (C), C.S.I.O., 1976-86; SCIENTIST EI, C.S.I.O. SINCE AUGUST, 1986.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INSTRUMENT TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 3, PRODUCTION - 7, TEACHING - 7, PLANNING - 2, IMPARTING TRAINING - 14.

1124

SHRI BALBIR SINGH VIRDI; (B. FEBRUARY 1, 1948),

SCIENTIST EI, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - PUNJAB '67; A.M.I.E. ELECTRICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '75.

SPECIALIZATIONS : ELECTRICAL MAINTENANCE/CONSTRUCTION; AIR CONDITIONING MAINTENANCE/ERECTION.

EXPERIENCE : GRADUATE APPRENTICE, J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.O., 1968-91; SCIENTIST EI, C.S.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : AIR CONDITIONING MAINTENANCE/ERECTION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : ELECTRICAL MAINTENANCE/CONSTRUCTION AND AIR CONDITIONING (COMBINED SECTION) - 23, AIR CONDITIONING - 2.

1125

SHRI M S AHLUWALIA; (B. MARCH 1, 1940),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '62.

SPECIALIZATIONS : VACUUM AND OPTICAL THIN FILM TECHNOLOGY.

EXPERIENCE : OPERATOR, F.C.I., PANJAB, 1962-64; J.L.A., J.M.A., SENIOR FOREMAN, AND SCIENTIST B, C.S.I.O., 1964-87; SCIENTIST C, C.S.I.O. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : REPAIR & MAINTENANCE OF INSTRUMENTS; VACUUM TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 6, OPERATION - 2, MAINTENANCE - 10, PRODUCTION - 2, TESTING & FABRICATION - 26.

1126

SHRI S S AHLUWALIA; (B. SEPTEMBER 3, 1952),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTORNICS & COMMUNICATION - MYSORE '74; M.TECH. ELECTRONICS AND ELECTRICAL COMMUNICATION - I.I.T., KHARAGPUR '76.

SPECIALIZATIONS : COMPUTATION AND CONTROL ENGINEERING; MEDICAL ELECTRONIC INSTRUMENTATION; TEMPERATURE MONITORING AND CONTROL INSTRUMENTATION.

EXPERIENCE : RESEARCH TRAINEE, ELECTRONICS TESTING AND DEVELOPMENT CENTRE, CHANDIGARH, 1976-77; S.S.A., C.S.I.O., 1977-80; SCIENTIST B AND SCIENTIST C, CEERI, PILANI, 1980-87; SCIENTIST C, C.S.I.O. SINCE JUNE, 1987.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF DIGITAL SCAN CONVERTERS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, DESIGN & DEVELOPMENT - 14, CONSTRUCTION - 11, TESTING - 11.

1127

DR P K AWASTHY; (B. JANUARY 1, 1953),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '69; M.SC. PHYSICS - VIKRAM '71; PH.D. PHYSICS - VIKRAM '82.

SPECIALIZATIONS : ELECTRON OPTICS; X-RAY SPECTROSCOPY; MICROELECTRONICS.

EXPERIENCE : J.R.F. AND S.R.F., U.G.C., 1973-79; RESEARCH ASSOCIATE, 1979-81; SCIENTIST B, C.S.I.O., 1981-91; SCIENTIST C, C.S.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : R & D IN ELECTRON OPTICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, DESIGN & DEVELOPMENT - 7, TESTING - 2, TEACHING - 7, COMPUTER PROCESSING - 1.

1128

SHRI H P BAHUGUNA; (B. APRIL 11, 1936),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN OPTICS - ORDNANCE FACTORY, DEHRA DUN '54.

SPECIALIZATIONS : OPTICAL WORKSHOP TECHNOLOGY.

EXPERIENCE : APPRENTICE TRAINEE & OPTICIAN, ORDNANCE FACTORY DEHRA DUN, 1950-54; FINE MECHANIC, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1964-87; TECHNICAL OFFICER (C), C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DEVELOPMENT AND FABRICATION OF PRECISION OPTICAL COMPONENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV - 4, PRODUCTION & TESTING - 33, PILOT PLANT - 7.

1129

SHRI PHUN PHUN BAJPAI; (B. SEPTEMBER 4, 1952),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '72; M.SC. PHYSICS - MEERUT '74.

SPECIALIZATIONS : APPLIED OPTICS; COMPUTER PROGRAMMING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : OPTICAL SYSTEMS DESIGN & INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 11, COMPUTER PROCESSING - 8, COMPUTER PROGRAMMING - 11.

1130

SHRI DIPAK KUMAR BANDYOPADHYAY; (B. DECEMBER 6, 1954),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. MECHANICAL - CALCUTTA '79.

SPECIALIZATIONS : I C ENGINES; MECHANICAL ENGINEERING.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MECHANICAL DESIGN & DEVELOPMENT.

LANGUAGES : HINDI, NEPALI, BENGALI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 11, TECH DEV - 2.

1131

SHRI G K BASUNDHRA; (B. SEPTEMBER 7, 1950),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC.(HONS.) - DELHI '70; M.SC. PHYSICS - DELHI '72.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : J.R.F., C.S.I.O., 1973-74; SR. TECHNICIAN, S.S.A., NEW DELHI, 1974-79; SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 17.

1132

SHRI M S BHAGESHWAR; (B. JULY 4, 1957),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '78; M.TECH. (APP. OPTICS) - I.I.T. DELHI '80.

SPECIALIZATIONS : OPTICAL LENS DESIGN.

EXPERIENCE : OPTICAL ENGINEER, M/S TOSHNIWAL, DELHI, 1980-81; SCIENTIST B, C.S.I.O., 1981-88; SCIENTIST C, C.S.I.O. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : OPTICAL SYSTEM DESIGN & DEVELOPMENT.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 6, REPAIRING & MAINTENANCE - 4.

1133

MRS SUKANYA BHASIN; (B. JUNE 19, 1954),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. (HONS.) - PANJAB '74; M.A. ECONOMICS - KURUKSHETRA '76; B.LIB.SC. - PANJAB '77;

M.LIB.SC. - PANJAB '78; M.PHIL LIBRARY SCIENCE - PANJAB '82.

SPECIALIZATIONS : LIBRARY AND INFORMATION SCIENCE.

EXPERIENCE : ASSISTANT LIBRARIAN, GOVT. COLLEGE FOR WOMEN, CHANDIGARH, 1978-79; LIBRARIAN, STATE INSTITUTION OF EDUCATION, CHANDIGARH, 1979; J.R.F. AND SCIENTIST B, C.S.I.O., 1981-87; SCIENTIST C, C.S.I.O. SINCE NOVERMBER, 1987.

PRESENT ACTIVITIES : DOCUMENTATION, COMPILATION AND EDITING OF ANNUAL REPORTS; PREPARATION OF SUBJECT BIBLIOGRAPHIES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : LIBRARY & DOCUMENTATION - 12.

1134

SHRI KAILASH CHANDER BHATIA; (B. APRIL 3, 1947),

SENIOR INSTRUCTOR (C), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PUNJAB '69.

SPECIALIZATIONS : PRECISION MACHINING & MEASUREMENTS; TOOL ROOM.

EXPERIENCE : CH/MECH., G.R.E.F./D.G.B.R., 1970-73; DEMONSTRATOR, CENTRAL POLYTECHNIC, CHANDIGARH, 1973-78; ASSOCIATE INSTRUCTOR (B), C.S.I.O., 1978-1983; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE NOVEMBER, 1983.

PRESENT ACTIVITIES : IMPARTING TRAINING TO STUDENTS; MANAGEMENT OF MAINTENANCE & REPAIR OF CSIO VEHICLES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION MAINTENANCE - 3, TEACHING - 5, IMPARTING TRAINING - 12.

1135

SHRI RANDHIR BHATNAGAR; (B. APRIL 23, 1958),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '80; M.TECH. OPTOELECTRONICS & OPTICAL COMMUNICATION - I.I.T., DELHI '82.

SPECIALIZATIONS : COMPUTER SOFTWARE; FIBER OPTICS COMMUNICATION SYSTEM; ELECTRONICS & OPTOELECTRONICS.

EXPERIENCE : SCIENTIST B, C.S.I.O., 1983-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN OPTOELECTRONIC SYSTEMS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, DESIGN - 7, TECHNICAL DEV. - 7

1136

SHRI LALIT KUMAR CHANDNA; (B. NOVEMBER 27, 1947),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - DELHI '65; DIPLOMA IN MECHANICAL ENGINEERING - DELHI '68.

SPECIALIZATIONS : PRECISION MECHANISM.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND SCIENTIST B, C.S.I.O., 1968-88; TECHNICAL OFFICER (C), C.S.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT-MECHNICAL ASPECTS OF X RAY LITHOGRAPHY, ELECTRON & ION BEAM TECHNIQUES FOR MICROELECTRONICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, TECH. DEV. - 11, OPERATION - 2, PLANNING - 14, WORKSHOP FABRICATION - 12, DESIGN & DEVELOPMENT - 10.

1137

SHRI KASHIDAS CHATTOPADHYAY; (B. OCTOBER 8, 1954),

SCIENTIST C, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '74; A.M.I.E. MECHANICAL ENGINEERING (INDIA).

SPECIALIZATIONS : DIE AND MOULD MAKING.

EXPERIENCE : MACHINE SHOP FOREMAN M/S BELL CONTROLS LD, CALCUTTA, 1974-81; ASSOCIATE INSTRUCTOR (B), C.S.I.O., 1981-87; SCIENTIST C, C.S.I.O. SINCE JULY, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING IN DIE & MOULD MAKING.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 7, TEACHING - 6, IMPARTING TRAINING - 9.

1138

SHRI KRISHAN PAL CHAUDHARY; (B. JANUARY 15, 1956),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - DELHI '74; M.SC. PHYSICS - MEERUT '76; P.G. DIPLOMA IN SCIENTIFIC INSTRUMENTATION - KURUKSHETRA '77.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : ELECTRONICS ENGINEER, M/S NATIONAL ELECTRONICS CORPN., NEW DELHI, 1977-80; S.S.A., SCIEN-

TIST A AND SCIENTIST B, C.S.I.O., 1980-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF ELECTRONICS; INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 9, REPAIRING & MAINTENANCE - 4.

1139

MRS VEENA CHAUDHARY; (B. JUNE 23, 1950),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - LUCKNOW '71; M.SC. PHYSICS - MEERUT '76; M.TECH. ELECTRONICS AND COMMUNICATION - ROORKEE '80.

SPECIALIZATIONS : ELECTRONICS; COMPUTER SCIENCE.

EXPERIENCE : TEACHER, MAHILA VIDYALAYA, LUCKNOW, 1972-74; S.T.A., CENTRAL GROUNDWATER BOARD, CHANDIGARH, 1977-83; SCIENTIST B, C.S.I.O., 1983-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN ELECTRON OPTICAL INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R&D - 4, MAINTENANCE - 6, TEACHING - 2, TESTING - 6, DESIGN & DEVELOPMENT - 7.

1140

DR S K CHAUHAN; (B. JULY 20, 1951),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH)

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '73; A.L.C. (ADVANCED LEVEL COURSE) IN COMPUTER SCIENCE - INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA '87; PH.D. PHYSICS - MEERUT '93.

SPECIALIZATIONS : COMPUTER SCIENCE; ELECTRONICS ; INSTRUMENTATION.

EXPERIENCE : GRADUATE TRAINEE, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1974-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : ELECTRONIC INSTRUMENTAION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 13, OPERATION - 18, REPARING & MAINTENANCE - 18, COMPUTER PROCESSING - 6, BASIC RESEARH - 4.

1141

SHRI S C CHHABRA; (B. MAY 4, 1945),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '64; A.M.I.E. - INDIA '71; M.A. ENGLISH - PANJAB '77.

SPECIALIZATIONS : TECHNICAL COMPILATION AND EDITING.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1965-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DATA COLLECTION, COMPILATION AND EDITING.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPILATION AND INFORMATION PROCESSING - 25.

1142

SHRI R DEVARAJAN; (B. JULY 31, 1952),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, MADRAS (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - MADURAI '75.

SPECIALIZATIONS : ELECTRONIC PROCESS CONTROL; ANALYTICAL INSTRUMENTATION.

EXPERIENCE : J.R.F., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1974-89; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : REPAIR, SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TAMIL, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 3, TECHNICAL DEV. - 2, CONSULTANCY - 1, R & D - 2, QUALITY CONTROL - 2, REPAIRING & MAINTENANCE - 15.

1143

SHRI R R DONGAONKAR; (B. SEPTEMBER 25, 1955),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - NAGPUR '75; M.SC. PHYSICS - NAGPUR '77.

SPECIALIZATIONS : ELECTRONICS; X-RAY INSTRUMENTATION.

EXPERIENCE : LECTURER, D.B. SCIENCE COLLEGE, GONDIA, 1978-79; S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF ANALYTICAL INSTRUMENTS; (SCANNING ELECTRON MICROSCOPE).

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 8, TECHNICAL DEV. - 8, OPERATION - 8, TESTING - 8, MAINTENANCE - 8, TEACHING - 1.

1144

SHRI ASHOK KUMAR GANJOO; (B. AUGUST 5, 1944),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE RUSSIAN LANGUAGE - JADAVPUR '66; M.SC. PHYSICS - JADAVPUR '67.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : P.G. TEACHER, LADY IRWIN HIGHER SECONDARY SCHOOL, NEW DELHI, 1967-69; RESEARCH SCHOLAR, GULMARG RESEARCH OBSERVATORY, KASHMIR, 1969-71; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1971-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN ELECTRONIC INSTRUMENTATION.

LANGUAGES : KASHMIRI, HINDI, URDU, BENGALI, PUNJABI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECHNICAL REPORTS - 5, PATENTS TAKEN - 2, PATENTS FILED CURRENTLY - 2, PROCESSES DEVELOPED - 10, PROCESS UNDER UTILISATION - 5.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA, 1989; SECOND BEST PRODUCT AWARD IN R & D, WISITEX, 1990; BEST PRODUCT AWARD IN THE INDIGENOUS R & D, WISITEX, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 22, DESIGN - - 24, TEACHING - 2, DOCUMENTATION - 15, TESTING - 24, TECH. DEV. - 22, QUALITY CONTROL - 7, PLANNING - 13, TECH. TRANSFER - 10, R & D MANAGEMENT - 7, ADMINISTRATION - 5.

1145

SHRI PAWAN KUMAR GARG; (B. FEBRUARY 22, 1939),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL DRAUGHTSMANSHIP - GOVT. INDUSTRIAL TRG. INSTITUE, PATIALA '59.

SPECIALIZATIONS : MECHANICAL DESIGN AND DRAWING IN RELATION TO OPTICAL INSTRUMENTS.

EXPERIENCE : MECHANICAL DRAUGHTSMAN, PEARL MECH. ENGG. & FOUNDRY WORKS PRIVATE LTD., LUDHIANA, 1961; TRACER, P.B. ENGG. COLLEGE, CHANDIGARH, 1961-62; JUNIOR DRAUGHTSMAN, I.I.P., DEHRA DUN, 1962-64; SENIOR DRAUGHTSMAN, S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1964-87; TECHNICAL OFFICER (C), C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : MECHANICAL DESIGN & DEVELOPMENT OF SCIENTIFIC INSTRUMENTS (ESPECIALLY OPTICS BASED INSTRUMENTS).

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, DRAWING & DEVELOPMENT - 28.

1146

SHRI C GHANSHYAM; (B. JANUARY 1, 1956),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.TECH. ELECTRONICS AND COMMUNICATION - J.N.T.U., KAKINADA '77; M.TECH. INSTRUMENTATION AND CONTROL - J.N.T.U., KAKINADA '83.

SPECIALIZATIONS : ELECTRON AND ION BEAM INSTRUMENTATION; INSTRUMENTATION FOR MICROELECTRONICS; HIGH VOLTAGE ELECTRONICS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B. C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : INSTRUMENTATION FOR MICROELECTRONICS DEVICE PROCESSING.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : WEST GERMANY, FINLAND.

PUBLICATIONS & PATENTS : RES.PAPERS - 10, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH AND DESIGN - 14.

1147

SHRI VIJAY RAJARAM HARCHEKAR; (B. JULY 30, 1945),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - POONA '67; A.M.I.I.M. METALLURGICAL ENGINEERING - INDIAN INSTITUTE OF METALS, CALCUTTA '73.

SPECIALIZATIONS : FOUNDRY ENGINEERING; METALLOGRAPHY; MECHANICAL TESTING; HEAT TREATMENT.

EXPERIENCE : METALLURGICAL APPRENTICE, ORDNANCE FACTORY, MURAD NAGAR, 1968-72; SUPERVISOR AND CHARGEMAN, ORDNANCE FACTORY, AMBARNATH, 1972-79; S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN NEW ALLOYS AND METALLURGICAL TEST INSTRUMENTS; METALLOGRAPHIC EVALUATION, MECHANICAL TESTING AND HEAT TREATMENT.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, TESTING - 7, QUALITY CONTROL - 7, PRODUCTION - 7, METALLURGICAL TESTING & ANALYSIS - 22.

1148

SHRI R P HIRA; (B. AUGUST 1, 1954),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING '75; A.M.I.E. (INDIA) MECHANICAL ENGINEERING '80.

SPECIALIZATIONS : MECHANICAL ENGINEERING.

EXPERIENCE : NON-COMMISSION OFFICER, I.A.F., 1972-84; ASSOCIATE INSTRUCTOR (B), C.S.I.O., 1984-89; TECHNICAL OFFICER (C), C.S.I.O. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : IMPARTING PRACTICAL TRAINING IN WORKSHOP TECHNOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIRING & MAINTENANCE - 12, TEACHING - 3, IMPARTING TRAINING - 6.

1149

DR P K JAIN; (B. APRIL 15, 1954),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '73; M.SC. CHEMISTRY - AGRA '75; PH.D. CHEMISTRY - AGRA '80.

SPECIALIZATIONS : WATER ANALYSIS; CLINICAL BIOCHEMISTRY; IMMUNOLOGY.

EXPERIENCE : SCIENTIST B, C.S.I.O., 1981-86; SCIENTIST C, C.S.I.O. SINCE JUNE, 1986.

PRESENT ACTIVITIES : WATER & AIR QUALITY MONITORING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, TECHNICAL DEV. - 9.

1150

SHRI SUBHASH CHANDER JAIN; (B. OCTOBER 18, 1952),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) - PANJAB '72; M.SC. PHYSICS - PANJAB '74; M.TECH. APPLIED OPTICS - I.I.T., DELHI '76.

SPECIALIZATIONS : OPTICAL WORKSHOP TECHNOLOGY; FIBER OPTICS TECHNOLOGY; OPTICAL FIBER MEASUREMENTS; OPTICAL INSTRUMENTATION; INTEGRATED OPTICS; FIBER OPTICS SENSORS.

EXPERIENCE : SCIENTIST, OPTICAL INSTRUMENTS CO. (P) LTD., NEW DELHI, 1976-81; SCIENTIST B, C.S.I.O., 1981-86; SCIENTIST C, C.S.I.O. SINCE APRIL, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORT - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN - 1, TESTING - 5, PRODUCTION - 5, IND. MGMT. - 5, DESIGN & DEVELOPMENT - 12.

1151

DR V K JAISWAL; (B. AUGUST 15, 1947),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - LUCKNOW '66; M.SC. PHYSICS - LUCKNOW '68; DIPLOMA IN RUSSIAN LANGUAGE - LUCKNOW '70; PH.D. PHYSICS - LUCKNOW '73.

SPECIALIZATIONS : ENVIRONMENTAL MONITORING INSTRUMENTATION, TESTING & CALIBRATION.

EXPERIENCE : J.R.F., S.R.F. AND POST DOCTORAL FELLOW, C.S.I.R., 1968-74; LECTURER, LUCKNOW UNIVERSITY, LUCKNOW, 1974-80; SCIENTIST B, C.S.I.O., 1980-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN EVALUATION, TESTING AND CALIBRATION OF ELECTRICAL & ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, URDU, PUNJABI, BENGALI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 1. RADIO TALKS - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 7, DESIGN - 5, TEACHING - 6, R & D MGMT - 3, R&D - 7, TESTING - 5.

1152

SHRI VIRENDER SINGH JANEJA; (B. APRIL 30, 1940),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '62.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : DEMONSTRATOR, PUNJAB ENGINEERING COLLEGE, CHANDIGARH, 1963-67; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1967-88; TECHNICAL OFFICER (C), C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIRING & MAINTENANCE - 26, TEACHING - 4.

1153

SHRI R C KALONIA; (B. JANUARY 5, 1955),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - KURUKSHETRA '78; M.TECH. APPLIED OPTICS - I.I.T., DELHI '80.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION; OPTICAL DESIGN; LITHOGRAPHIC GRATINGS.

EXPERIENCE : ASSISTANT RES. OFFICER, O.S.A.W., AMBALA, 1980-81; LECTURER, GOVT. COLLEGE, NARNAUL, 1981-82; S.R.A., I.I.T., DELHI, 1982-83; SCIENTIST B, C.S.I.O., 1983-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : IMAGE EVALUATION AND TESTING OF OPTICAL INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 1, TECH. DEV. - 1, TESTING - 7, PRODUCTION - 1, TEACHING - 2, COMPUTER PROCESSING - 1, APP. RES. - 1

1154

SHRI R S KATHURIA; (B. JANUARY 10, 1948),

SENIOR INSTRUCTOR (C), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - HARYANA '68.

SPECIALIZATIONS : SCIENTIFIC INSTRUMENTATION; WORKSHOP TECHNOLOGY.

EXPERIENCE : JR. DRAUGHTSMAN, SR. DRAUGHTSMAN, J.T.A. AND S.T.A., C.S.I.O. 1968-79; SCIENTIST B, N.P.L., NEW DELHI, 1979; S.T.A. AND ASSOCIATE INSTRUCTOR (B), C.S.I.O., 1979-86; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE MARCH, 1986.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INDUSTRIAL ELECTRONICS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 13, IMPARTING TRAINING - 9.

1155

SHRI S M T KAZMI; (B. OCTOBER 16, 1935),

GARDEN SUPERINTENDENT (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN AGRICULTURE - SCHOOL OF AGRICULTURE, BULANDSHAHR '52.

SPECIALIZATIONS : HORTICULTURE.

EXPERIENCE : SUPDT. HORTICULTURE GARDEN SUPDT. AND GARDEN SUPERINTENDENT (B), C.S.I.O., 1962-85; GARDEN SUPERINTENDENT (C), C.S.I.O. SINCE MAY, 1985.

PRESENT ACTIVITIES : SUPERVISION OF HORTICULTURAL WORK.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : GARDEN & HORTICULTURAL WORK - 38.

1156

SHRI AMOD KUMAR; (B. SEPTEMBER 17, 1958),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRICAL & ELECTRONICS - B.I.T.S., PILANI '79; M.E. ELECTRONICS - PANJAB '85.

SPECIALIZATIONS : ULTRASONIC INSTRUMENTATION; PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF ULTRASONIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 14.

1157

SHRI PRADEEP KUMAR; (B. FEBRUARY 10, 1954),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - MYSORE '75.

SPECIALIZATIONS : BIOMEDICAL INSTRUMENTATION.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1977-88; SCIENTIST C, C.S.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF BIOMEDICAL INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 13.

1158

SHRI M P A KURUP; (B. JANUARY 15, 1938),

SCIENTIST C, SERVICE & MAINTENANCE CENTRE, JAIPUR (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - KERALA '61; A.M.I.T.E. - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '66.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.S.A., R.R.L., JAMMU, 1966-71; SCIENTIST A AND SCIENTIST B, C.S.I.O., 1971-80; SCIENTIST C, C.S.I.O. SINCE APRIL, 1980.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, MALAYALAM, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 24.

1159

SHRI INDER MOHAN LAL; (B. NOVEMBER 15, 1942),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '69; A.M.I.E. ELECTRONICS AND COMMUNICATION - INSTITUTION OF ENGINEERS, CALCUTTA '76.

SPECIALIZATIONS : ELECTROMAGNETIC FLOWMETER'S TRANSDUCERS; PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : ELECTRICIAN, BATALA COOPERATIVE SUGAR MILLS, BATALA, 1966-67; MECHANIC, FINE MECHANIC, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1982-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : TEACHING; R & D IN ELECTRONIC INSTRUMENTATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 1, TECH.REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 10, TESTING - 5, TEACHING - 9.

1160

SHRI B S MAHINDRU; (B. NOVEMBER 12, 1935),

EXECUTIVE ENGINEER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - PANJAB '58.

SPECIALIZATIONS : CIVIL ENGINEERING.

EXPERIENCE : CIVIL OVERSEER, PREM NARAIN CONTRACTOR, NEW DELHI. 1958; CIVIL OVERSEER, PANJAB GOVT., 1958-60; SUPERVISOR, M/S SACHDEV AND ASSOCIATES, NEW DELHI, 1960; SUPERVISOR, M/S BHARGAVA AND ASSOCIATES, DELHI, 1960; CIVIL OVERSEER, C.S.I.R., NEW DELHI, C.G.C.R.I. AND I.I.E.M., CALCUTTA, 1960-63; ASSISTANT ENGINEER, GENERAL RESERVED ENGINEERS FORCE, 1963-66; CIVIL OVERSEER, C.S.I.R., NEW DELHI, 1966-69; CIVIL ENGINEER, N.I.O., GOA, 1969-75; CIVIL ENGINEER, ASSTT. EXECUTIVE ENGINEER (B),C.S.I.O., 1975-86; EXECUTIVE ENGINEER (C), C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : CIVIL ENGINEERING WORKS.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CIVIL MAINTENANCE & CONSTRUCTION - 32.

1161

SHRI NANOO MAL; (B. OCTOBER 30, 1949),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '70; M.SC. PHYSICS - MEERUT '72; B.ED. - MEERUT '74.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION.

EXPERIENCE : GRADUATE TRAINEE, S.L.A., J.S.A., S.S.A. AND SCIENTIST B, C.S.I.O., 1974-91; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : OPTICAL INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, TECHNICAL DEV. AND TESTING - TOTAL 14 YEARS, DESIGN & DEVELOPMENT AND TESTING - 18.

1162

SHRI S K MITTAL; (B. JANUARY 20, 1957),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.TECH. ELECTRONICS & COMMUNICATION ENGINEERING - ROORKEE '82.

SPECIALIZATIONS : ELECTRONICS & COMMUNICATION ENGINEERING; COMPUTER SCIENCE AND TECHNOLOGY.

EXPERIENCE : SCIENTIST B, C.S.I.O., 1982-88; SCIENTIST C, C.S.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : R & D

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5, DESIGN & DEVELOPMENT - 8, TECH. DEV. - 5, COMPUTER PROCESSING - 5, OPERATION - 5.

1163

SHRI S N MOHAN; (B. NOVEMBER 24, 1935),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : APPRENTICESHIP IN MACHINIST TRADE - NORTHERN RAILWAY WORKSHOP, KALKA '58; INSTRUCTOR COURSE IN TRADE MACHINIST - C.T.I., BILASPUR '60; CERTIFICATE IN FITTING TRADE - I.T.I., CALCUTTA '63.

SPECIALIZATIONS : WORKSHOP FABRICATION; SHOP-FLOOR MANAGEMENT.

EXPERIENCE : SKILLED TURNER, NORTHERN RAILWAYS, 1958-60; M. INSTRUCTOR, BHILAI TECHNICAL INSTITUTE, BHILAI, 1961-65; INSTRUCTOR, H.A.L., KORAPUT DIVISION. ORISSA, 1965-69; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1969-86; SCIENTIST C, C.S.I.O. SINCE AUGUST, 1986.

PRESENT ACTIVITIES : WORKSHOP FABRICATION.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TECH. DEV. - 9, PRODN. - 3, PLANNING - 2, TEACHING - 8, WORKSHOP FABRICATION & SUPERVISION - 32.

1164

SHRI S K MUKHERJEE; (B. JUNE 15, 1953),

SENIOR INSTRUCTOR (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C. '74.

SPECIALIZATIONS : DIE MAKING AND MOULDING; QUALITY CONTROL & METROLOGY

EXPERIENCE : JUNIOR TECHNICIAN, B.H.E.L., HARDWAR, 1975-81; ASSOCIATE INSTRUCTOR (B), C.S.I.O., 1981-87; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE MAY, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING IN DIE AND MOULD MAKING COURSE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : QUALITY CONTROL (REPAIRS AND MAINTENANCE AND METROLOGY) - 7, TEACHING - 13.

1165

SHRI R P MURGAI; (B. MARCH 1, 1948),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. MATHEMATICS - MEERUT '72; CERTIFICATE COURSE (COMPUTER LANGUAGES) - I.I.T., DELHI '76; M.SC. CHEMISTRY - MEERUT '81.

SPECIALIZATIONS : PETROLEUM TECHNOLOGY; ENVIRONMENTAL CHEMISTRY; ELECTROCHEMISTRY.

EXPERIENCE : LAB. ASST., N.G.R.I., 1968-70; LAB. ASST. J.S.A., S.S.A. AND SCIENTIST A, I.I.P., 1970-83; SCIENTIST A AND SCIENTIST B, C.S.I.O., 1983- 91; SCIENTIST C, C.S.I.O. SINCE OCTOBER, 1991.

PRESENT ACTIVITIES : RESEARCH IN ELECTROCHEMISTRY(ELECTRODEPOSITION).

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 14, QULAITY CONTROL - 14, APPLIED RESEARCH & INVESTIGATION - 13, DEVELOPMENT - 9.

1166

SHRI ASHOK KUMAR PAUL; (B. OCTOBER 2, 1953),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - H.P. SIMLA '73; M.SC. PHYSICS - PUNJAB '75; M.TECH. APPLIED OPTICS - I.I.T., DELHI '77.

SPECIALIZATIONS : SPECTROMETRIC ANALYTICAL INSTRUMENTATION; PLASMA PROCESSING TECHNIQUES FOR MICROELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.S.A. AND SCIENTIST B, C.S.I.O., 1977-87; SCIENTIST C, C.S.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : WEST GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPER - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN - 6, TECHNICAL DEV. - 5.

1167

SHRI H K PIR; (B. JUNE 1, 1951),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - KARNATAK '75; P.G. DIPLOMA - Y.M.C.A., NEW DELHI '89.

SPECIALIZATIONS : BIOMEDICAL INSTRUMENTATION; ELECTRONICS.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : BIO-MEDICAL INSTRUMENTATION.

LANGUAGES : HINDI, URDU, KASHMIRI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - PATIENT MONITORING SYSTEMS.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 14, OPERATION - 14, TESTING - 14, QUALITY CONTROL - 14, MAINTENANCE - 14.

1168

SHRI C R PRASAD; (B. MARCH 15, 1946),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - ANDHRA '66; M.SC. (TECH.) APPLIED PHYSICS - ANDHRA '70.

SPECIALIZATIONS : FIBER OPTICS; OPTICAL INSTRUMENTATION; GRATICULATION; OPTICAL FABRICATION AND TESTING.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, C.S.I.O., 1971-85; SCIENTIST C, C.S.I.O. SINCE OCTOBER, 1985.

PRESENT ACTIVITIES : R & D IN FIBER OPTICS.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN & DEVELOPMENT - 19, QUALITY CONTROL - 9.

1169

SHRI R RAGHUNATHAN; (B. DECEMBER 14, 1955),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, MADRAS (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - MADRAS '76; M.SC. APPLIED PHYSICS - MADRAS '78.

SPECIALIZATIONS : ELECTRONIC PROCESS CONTROL & ANALYTICAL INSTRUMENTATION.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : REPAIR, SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TAMIL, HINDI, PUNJABI, MALAYALAM, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 3, TECHNICAL DEV. - 3, REPAIR & MAINTENANCE - 11.

1170

SHRI BALDEV RAJ; (B. JUNE 7, 1944),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '64; M.SC. CHEMISTRY - MEERUT '68.

SPECIALIZATIONS : CHEMICAL ANALYSIS OF METALS.

EXPERIENCE : LAB. SUPERVISOR, J.S.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1968-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DEVELOPMENT OF NEW ALLOYS & METALLURGICAL TESTING INSTRUMENTS; MATERIALS ANALYSIS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., TESTING & ANALYSIS - 22.

1171

SHRI S V RAMAGOPAL; (B. MAY 11, 1955),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - ANDHRA '75; M.SC. PHYSICS - S.G. UNIVERSITY '78; M.TECH. APPLIED OPTICS - I.I.T., DELHI '80; PH.D. OPTICAL DESIGN - I.I.T., DELHI '88.

SPECIALIZATIONS : OPTICAL SYSTEM DESIGN; APPLIED OPTICS; COMPUTER SOFTWARE; COMPUTER AIDED DESIGN.

EXPERIENCE : SCIENTIST B, C.S.I.O., 1983-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, GUJARATI, ENGLISH, GERMAN, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 13.

1172

SHRI SARUP SINGH RANDHAWA; (B. FEBRUARY 4, 1950),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '70; B.SC. (HONS.) BIOCHEMISTRY - PANJAB '72; M.SC. BIOCHEMISTRY - PANJAB '74; DIPLOMA IN GERMAN LANGUAGE - PANJAB '76.

SPECIALIZATIONS : ANIMAL BIOCHEMISTRY; AUTOMATIC BIOCHEMICAL ANALYSIS SYSTEMS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN BIOMEDICAL INSTRUMENTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORT - 2.

AWARDS & DISTINCTIONS : NRDC AWARD FOR DEVELOPMENT OF DIGITAL COLORIMETER, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, TESTING - 4, REPAIR & MAINTENANCE - 2, DESIGN & DEVELOPMENT - 9.

1173

SHRI C JAGANNADHA RAO; (B. JUNE 25, 1948),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - OSMANIA '69; M.SC. PHYSICS - OSMANIA '72.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : QUALITY CONTROL - 3, REPAIR & MAINTENANCE - 14.

1174

SHRI P KRISHNA RAO; (B. JANUARY 19, 1952),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - KURUKSHETRA '74.

SPECIALIZATIONS : ELECTRONICS, OPTICAL THIN FILMS TECHNOLOGY.

EXPERIENCE : TRAINEE, PUBJAB STATE ELECTRONICS DEV. CORPORATIVE, 1979-81; S.R.A., I.I.T., DELHI, 1981-83; SCIENTIST B, C.S.I.O., 1983-88; SCIENTIST C, C.S.I.O. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : R & D IN OPTICAL THIN FILM TECHNOLOGY.

LANGUAGES : TELUGU, HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, DESIGN & DEVELOPMENT - 7, TECHNICAL DEV. - 8, TESTING - 3, TEACHING - 1.

1175

SHRI J S SABHARWAL; (B. APRIL 28, 1948),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - PANJAB '68; M.SC. (HONS.) PHYSICS - PANJAB '69.

SPECIALIZATIONS : PROJECT MANAGEMENT; TECHNICAL INFORMATION PROCESSING.

EXPERIENCE : MUSEUM ASSISTANT AND J.T.A., C.S.I.O., 1970-77; S.T.A., N.G.R.I., 1977; S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1977-88; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : PROJECT MANAGEMENT.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, PLANNING & MANAGEMENT - 20, INFORMATION DISSEMINATION - 18.

1176

SHRI SUKHDEV SINGH SAGGU; (B. MAY 2, 1938),

SCIENTIST CI, I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PANJAB '59; A.M.I.E. MECHANICAL ENGINEERING - INSTITUTION OF ENGINEERS, INDIA; B.A. - PANJABI '77.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : SUPERVISOR, BANSAL MATHAROO TOOLS CO, LUDHIANA, 1959-64; INSTRUCTOR, NAINITAL POLYTECHNIC, NAINITAL, 1964-65; S.T.A., SCIENTIST A, AND SCIENTIST B, C.S.I.O., 1965-81; SCIENTIST CI, C.S.I.O. SINCE JANUARY, 1981.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INSTRUMENT TECHNOLOGY.

LANGUAGES : PUNJABI, URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, DESIGN - 14, TECHNICAL DEV. - 14, QUALITY CONTROL - 5, MAINTENANCE - 5, PRODUCTION - 5, IND. MANAGEMENT - 5, TEACHING - 10, IMPARTING TRAINING - 17, FABRICATION - 8.

1177

SHRI S S SAHOTA; (B. APRIL 10, 1942),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. (HONS.) PHYSICS - PANJAB '65.

SPECIALIZATIONS : SPECTROSCOPY; TECHNICAL INFORMATION & INDUSTRIAL LIAISON.

EXPERIENCE : LECTURER, KHALSA COLLEGE, PATIALA, 1965-67; J.S.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1967-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : TEACHING CHEMISTRY AND ELECTRICAL ENGINEERING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : R&D - 1, TEACHING - 9, TECHNOLOGY TRANSFER - 15, IND. LIAISON & PUBLIC RELATION - 16.

1178

SHRI HARISH KUMAR SARDANA; (B. NOVEMBER 28, 1961),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRONICS AND COMMUNICATION - KURUKSHETRA '82; M.E. ELECTRONICS & COMMUNICATIONS - PUNJAB '89.

SPECIALISATIONS : PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : SCIENTIST B, C.S.I.O., 1982-87; SCIENTIST C, C.S.I.O. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF SCIENTIFIC INSTRUMENTS.

LANGUAGES : PUNJABI. HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, DESIGN & DEVELOPMENT - 8, DEVELOPMENT - 5.

1179

SHRI VIJAY SEHGAL; (B. SEPTEMBER 15, 1952),

TECHNICAL OFFICER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PANJAB '72.

SPECIALIZATIONS : ELECTROOPTICAL INSTRUMENTATION; PRECISION MECHANICAL ENGINEERING.

EXPERIENCE : SUPERVISOR, PANJAB ELECTRIC WORK, PANJAB, 1972; MECHANICAL SUPERVISOR, DEMCAN CO. PVT. LTD., 1972-73; WELL SUPERVISOR, AGRICULTURE ENGG., HARYANA, 1973; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O. 1973-89; SCIENTIST C, C.S.I.O. SINCE MARCH, 1989.

PRESENT ACTIVITIES : R & D IN FIBER OPTICS AND ELECTRO-OPTICAL INSTRUMENTATION

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, PROCESSES DEVELOPED - 3, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13, DESIGN & DEVELOPMENT - 17, - 13, CONSULTANCY - 13, QUALITY CONTROL - 13, PRODUCTION - 1.

1180

SHRI ANIL KUMAR SHARMA; (B. JANUARY 2, 1953),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS (ELECTRONICS) - MEERUT '77; POST GRADUATE DIPLOMA - SCIENTIFIC INSTRUMENTATION - KURUKSHETRA '78.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : EXECUTIVE OFFICER, MUNICIPAL BOARD, 1975-76; SR. TEACHER, HIGHER TECHNOLOGY SCHOOL, 1976; SCIENTIFIC ASSTT., ATOMIC ENERGY DEPTT., 1976-79; S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-83; SCIENTIST C, C.S.I.O. SINCE APRIL, 1983.

PRESENT ACTIVITIES : SERVICE AND MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 14, TEACHING - 1.

1181

SHRI BALKISHOR SHARMA; (B. OCTOBER 25, 1950),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '73; M.SC. PHYSICS - MEERUT '77; P.G. DIPLOMA IN COMPUTER SCIENCE AND TECHNOLOGY - ROORKEE '78; M.TECH. ELECTRONIC & COMMUNICATION - ROORKEE '79.

SPECIALIZATIONS : MICROPROCESSOR BASED GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : S.T.A. AND SCIENTIST B, C.S.I.O., 1979-86; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN MICROPROCESSOR BASED INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

AWARDS & DISTINCTIONS : FELLOW, IETE (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, DESIGN & DEVELOPMENT - 11, OPERATION - 7, TESTING - 7.

1182

SHRI NAVNEET KUMAR SHARMA; (B. DECEMBER 8, 1948),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - DELHI '68; DIPLOMA IN ITALIAN LANGUAGE - ITALIAN CULTURAL CENTRE '70; GRAD. IETE ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '74.

SPECIALIZATIONS : CALIBRATION OF ELECTRONIC AND ALLIED EQUIPMENTS.

EXPERIENCE : J.S.A. AND S.S.A., SOLID STATE PHYSICS LABORATORY, MINISTRY OF DEFENCE, DELHI, 1968-79; SCIENTIST B, C.S.I.O., 1979-85; SCIENTIST C, C.S.I.O. SINCE SEPTEMBER, 1985.

PRESENT ACTIVITIES : REPAIR, SERVICE AND MAINTENANCE OF ELECTRONIC EQUIPMENTS.

LANGUAGES : HINDI, ENGLISH, ITALIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, TECHNICAL DEV. - 4, OPERATION - 11, TESTING - 4, REPAIR & MAINTENANCE - 22, ADMN. - 1.

1183

SHRI D S SIAN; (B. FEBRUARY 8, 1946),

SENIOR INSTRUCTOR (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - A.M.I.E. (INDIA).

SPECIALIZATIONS : ELECTRICAL MAINTENANCE.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1968-77; ASSOCIATE INSTRUCTOR, I.S.T.C., 1977-84; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE SEPTEMBER, 1984.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECHNICAL REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : ELECTRICAL MAINTENANCE - 9, IMPARTING TRAINING - 13.

1184

SHRI G S SINGH; (B. JULY 25, 1955),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - MEERUT '75; M.SC. PHYSICS - MEERUT '77; M.TECH. APPLIED OPTICS - I.I.T., DELHI '79.

SPECIALIZATIONS : COMPUTER PROCESSING; APPLIED OPTICS; COMPUTER AIDED DESIGN.

EXPERIENCE : S.R.F., I.I.T., DELHI, 1979; S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-87; SCIENTIST C, C.S.I.O. SINCE FEBRAURY, 1987.

PRESENT ACTIVITIES : R & D IN OPTICAL SYSTEM DESIGN.

LANGUAGES : HINDI, ENGLISH, FRENCH, GERMAN.

VISITED : GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPTICAL SYSTEM DESIGN - 8, COMPUTER PROCESSING - 8, COMPUTER AIDED DESIGN - 8, DESIGN & DEVELOPMENT - 11.

1185

SHRI GURDEV SINGH; (B. SEPTEMBER 5, 1942),

SENIOR INSTRUCTOR (C), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MECHANICAL DRAUGHTSMANSHIP - HARYANA '60; ADVANCE TRAINING IN DIE DESIGN - C.I.T.D., HYDERABAD; SPECIAL COURSE FOR USE OF AUDIO VISUAL AIDS - T.T.T.I., CHANDIGARH.

SPECIALIZATIONS : DIE AND MOULD DESIGN; DIE CASTING; COMPRESSION MOULDS; TRANSFER MOULDS; INJECTION MOULDS DESIGN; PRESS TOOLS.

EXPERIENCE : DRAUGHTSMAN MECH., PEARL MECH. ENGG. & FOUNDRY WORKS, LUDHIANA AND CHANDIGARH PAPERS BOARDS MILLS, CHANDIGARH, 1960-62; DRAUGHTSMAN MECH., METERS AND INSTRUMENTS, CHANDIGARH, 1962-64; DRAWING INSTRUCTOR, INDUSTRIAL TRAINING INSTITUTE, RAJPURA, 1964-66; JR. DRAUGHTSMAN, SR. DRAUGHTSMAN, J.T.A., S.T.A. AND ASSOCIATE INSTRUCTOR, C.S.I.O., 1966-87; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INSTRUMENT TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 20, TEACHING - 21, IMPARTING TRAINING - 8.

1186

SHRI KULDIP SINGH; (B. AUGUST 19, 1944.),

SENIOR INSTRUCTOR (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. PHYSICS - JAMMU & KASHMIR '68; CERTIFICATE IN PROCESS CONTROL INSTRUMENTATION - C.T.I., BOMBAY '81.

SPECIALIZATIONS : PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND ASSOCIATE INSTRUCTOR (C), C.S.I.O., 1969-87; SENIOR INSTRUCTOR (C), C.S.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING IN INSTRUMENT TECHNOLOGY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : IMPARTING TRAINING - 21.

1187

SHRI NAVTEJ SINGH; (B. JANUARY 12, 1944),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : FIVE YEARS DIPLOMA IN COMMERCIAL ART - PANJAB '64.

SPECIALIZATIONS : SCREEN PRINTING; PRINTED CIRCUIT BOARDS; COMMERCIAL ART.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1966-86; SCIENTIST C, C.S.I.O. SINCE APRIL, 1986.

PRESENT ACTIVITIES : PRINTED CIRCUIT BOARD TECHNIQUES; SCREEN PRINTING TECHNOLOGY; CHEMICAL MILLING; ART WORK FOR EXHIBITION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 22, CONSULTANCY - 22, PRODUCTION - 22, ARTWORK IN PRINTING & PUBLICATION - 24.

1188

SHRI RANJIT SINGH; (B. APRIL 16, 1959),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - PUNJAB '81; M.TECH. ELECTRONICS - I.I.T., DELHI '88.

SPECIALIZATIONS : MICROPROCESSOR BASED SYSTEMS DESIGN; DIGITAL ELECTRONICS; PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : J.R.F., THAPAR COLLEGE OF ENGINEERING, PATIALA, 1981-82; SCIENTIST B, C.S.I.O., 1982-87; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN ELECTRONIC PROCESS CONTROL INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5, DESIGN & DEVELOPMENT - 8, TECHNICAL DEV. - 5, TEACHING - 1,

1189

MRS KULJIT SODHI; (B. JUNE 5, 1947),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS - B.I.T.S. '69.

SPECIALIZATIONS : ELECTRONIC CIRCUITS; APPLIED PHYSICS.

EXPERIENCE : S.S.A., N.P.L., NEW DELHI, 1970-72; S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1972-87; SCIENTIST C, C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : R & D IN ELECTRONICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN & DEVELOPMENT - 17, 10, TESTING - 10, MAINTENANCE - 10, PLANNING & MANAGEMENT - 3.

1190

SHRI M S N SRINIVAS; (B. OCTOBER 31, 1956),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '76; M.SC PHYSICS - ANDHRA '78; PH.D. ENVIORNMENTAL SCIENCES - UNIVERSITY OF STRATHCLYDE, GLASGOW, U.K. '89.

SPECIALIZATIONS : ENVIRONMENTAL MONITORING INSTRUMENTATION; GLOBAL POLLUTION STUDIES; COMPUTER APPLICATIONS IN AIR POLLUTION STUDIES.

EXPERIENCE : J.R.F., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1979-88; SCIENTIST C, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN POLLUTION STUDIES & INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.K., PORTUGAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 8, PATENTS TAKEN - 1, PROCESS UNDER UTILISATION - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 3, APPLIED RESEARCH - 11, DESIGN - 14, CONSULTANCY - 2, R & D MANAGEMENT - 4.

1191

SHRI G SUBRAMANIAN; (B. AUGUST 6, 1939),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, MADRAS (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.E. ELECTRICAL AND ELECTRONICS - MADRAS '76.

SPECIALIZATIONS : PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : G.A. AND S.L.A., C.E.C.R.I., 1964-69; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1969-85; SCIENTIST C, C.S.I.O. SINCE JUNE, 1985.

PRESENT ACTIVITIES : R & D IN PROCESS CONTROL INSTRUMENTATION.

LANGUAGES : TAMIL, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, TECHNICAL DEV. - 4, R & D MANAGEMENT - 2, CONSTN. - 2, TESTING - 4, REPARI & MAINTENANCE - 21, APPLIED RESEARCH - 5.

1192

SHRI S C SURI; (B. NOVEMBER 11, 1941),

SCIENTIST C, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - DELHI '61; A.M.I.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - INSTITUTION OF ENGINEERS, INDIA '72.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : SCIENCE TEACHER, G.G.H.S. SCHOOL, GURGAON, 1962; SCIENCE TEACHER, RAMJAS H.S. SCHOOL, DELHI, 1962-63; TECH. ASSTT., TATANAGAR FOUNDRY, TATANAGAR, BIHAR, 1963-66; J.L.A., S.L.A., J.T.A., S.T.A. AND SCIENTIST B, C.S.I.O., 1967-84; (ALSO ATTENDED A SHORT-TERM TRAINING COURSE IN MEDICAL ULTRASONICS, U.K., MAY 1977); SCIENTIST C, C.S.I.O. SINCE JULY, 1984.

PRESENT ACTIVITIES : SERVICING OF INSTRUMENTS; LIAISON; MANAGEMENT OF TRAINING PROGRAMMES.

LANGUAGES : PUNJABI, URDU. HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS (UN) - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, PLANNING - 4, REPAIR & MAINTENANCE - 24, PRODUCTION - 3.

1193

SHRI R C TAKKAR; (B. OCTOBER 23, 1940),

SCIENTIST C, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN FABRICATION OF PRECISION OPTICAL COMPONENTS - S.I.S.I., NEW DELHI '62; DIPLOMA IN OPTICAL INSTRUMENTATION - U.K. '79.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION.

EXPERIENCE : WORKER, M/S SPECTRA PRECISION, DELHI, 1961-62; SUPERVISOR, M/S. HARVIN OPTICAL AND GLASS INDUSTRIES, HYDERABAD, 1962-64; J.T.A., SENIOR FOREMAN, S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1965-86; SCIENTIST C, C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : DEVELOPMENT AND FABRICATION OF PRECISION OPTICAL INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 7, PILOT PLANT - 7, CONSULTANCY - 3, PRODUCTION - 3, DEVELOPMENT - 19.

1194

SHRI M K VERMA; (B. JUNE 8, 1939),

ELECTRICAL ENGINEER (C), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : ELECTRICAL SUPERVISOR COURSE.

SPECIALIZATIONS : ELECTRICAL MAINTENANCE.

EXPERIENCE : ELECTRICAL SUPERVISOR WITH M/S KUMAR & CO., JALANDHER, 1959-62; SR. ELECTRICIAN, I.I.P., DEHRA DUN, 1962-66; ELEC. FOREMAN, RAPP, KOTA, 1966-71; ELECT. ENGINEER AND SCIENTIST B, C.S.I.O., 1971-86; ELECTRICAL ENGINEER (C), C.S.I.O. SINCE FEBRUARY, 1986.

LANGUAGES : PUNJABI, HINDI, ENGLISH, URDU.

PROFESSIONAL EXPERIENCE(IN YEARS) : ELECTRICAL MAINTENANCE - 31.

1195

MRS RAMESH RANI AGARWAL; (B. NOVEMBER 15, 1947),

LIBRARY OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - PANJAB '68; B.LIB.SC. - PANJAB '70.

SPECIALIZATIONS : LIBRARY SCIENCE; INFORMATION DISSEMINATION; DOCUMENTATION.

EXPERIENCE : CATALOGUER, SENIOR LIBRARIAN AND SENIOR LIBRARIAN (A), C.S.I.O., 1970-88; LIBRARY OFFICER (C), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : LIBRARY MANAGEMENT; INFORMATION DISSEMINATION AND DOCUMENTATION.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PROFESSIONAL EXPERIENCE(IN YEARS) : INFORMATION DISSEMINATION AND DOCUMENTATION - 17, LIBRARY MANAGEMENT - 20.

1196

SHRI R S AHLUWALIA; (B. OCTOBER 21, 1939),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.A. HISTORY - PANJAB '68.

SPECIALIZATIONS : INFORMATION COLLECTION & DISSEMINATION.

EXPERIENCE : CATALOGUER, S.L.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1964-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE MAY, 1987.

PRESENT ACTIVITIES : COLLECTION & COMPILATION OF DATA; SALES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 23, EDITING - 23, DOCUMENTATION - 18, COMPILATION - 10, LIBRARY CATALOGUING - 6.

1197

SHRI KRISHAN LAL ARORA; (B. JUNE 7, 1941),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN INSTRUMENT MECHANIC - N.C.V.T., AMBALA '63; DIPLOMA IN MECHANICAL ENGINEERING - PUNJAB '78.

SPECIALIZATIONS : MECHANICAL WORKSHOP TECHNIQUES.

EXPERIENCE : FINE MECHANIC, JUNIOR MECHANICAL ASSISTANT, SR. FOREMAN AND SCIENTIST A, C.S.I.O., 1964-86; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1986.

PRESENT ACTIVITIES : MECHANICAL FABRICATION AND ASSEMBLY OF INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 25, WORKSHOP FABRICATION TESTING - 26.

1198

SHRI I P S BAJWA; (B. JANUARY 1, 1936),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN RADIO TECHNOLOGY - PUNJAB '77.

SPECIALIZATIONS : ELECTRICAL CIRCUITRY.

EXPERIENCE : FINE MECHANIC, J.T.A., S.T.A., AND SCIENTIST A, C.S.I.O., 1965-88; C.S.I.O., 1965-88; TECHNICAL OFFICER (B), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF MEDICAL ELECTRONIC INSTRUMENTS.

LANGUAGES : PUNJABI, URDU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 22, TECHNICAL DEV. - 22, DEVELOPMENT - 25.

1199

SHRI ROSHAN LAL BANSAL; (B. DECEMBER 17, 1940),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN MECHANICAL DRAUGHTSMANSHIP - MINISTRY OF LABOUR & EMPLOYMENT, INDIA '62; INTERMEDIATE SCIENCE, PANJAB.

SPECIALIZATIONS : MECHANICAL DESIGN; DRAWING OF SCIENTIFIC INSTRUMENTS.

EXPERIENCE : TRACER, FINE MECHANIC, SR. DRAUGHTSMAN, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1964-86; TECHNICAL OFFICER (B), C.S.I.O. SINCE AUGUST, 1986.

PRESENT ACTIVITIES : DESIGN & DRAWING OF ELECTRON-OPTICAL AND ANALYTICAL INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, PROCESSES DEVELOPED - 29, PROCESSES UNDER UTILISATION - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23, DESIGN, DRAWING & DEVELOPMENT - 26, TECHNICAL DEV. - 23.

1200

SHRI NITISH KUMAR BASU; (B. MARCH 1, 1942),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN RUSSIAN LANGUAGE - JADAVPUR '62; B.SC. - JADAVPUR '63; B.LIB.SC. - JADAVPUR '66.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : ASSISTANT, C.P.C., CALCUTTA, 1962-66; LIBRARIAN, CENTRAL SCHOOL, PANAGARH, 1966-68; S.L.A., J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1968-84; SCIENTIST B, C.S.I.O. SINCE NOVEMBER, 1984.

PRESENT ACTIVITIES : COLLECTION AND DISSEMINATION OF TECHNICAL INFORMATION.

LANGUAGES : BENGALI, HINDI, PUNJABI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 18, EDITING - 18, DOCUMENTATION - 18, COMPILATION & INFORMATION PROCESSING - 25.

1201

SHRI SUDHIR BEDI; (B. SEPTEMBER 7, 1946),

ASSOCIATE INSTRUCTOR (B), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '68.

SPECIALIZATIONS : INSTRUMENT TECHNOLOGY.

EXPERIENCE : FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1968-84; ASSOCIATE INSTRUCTOR (B), C.S.I.O. SINCE OCTOBER, 1984.

PRESENT ACTIVITIES : IMPARTING TRAINING IN MECHANICAL WORKSHOP TECHNIQUES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 15, MAINTENANCE - 3, TEACHING - 15, IMPARTING TRAINING - 22.

1202

SHRI SURINDER SINGH BHALLA; (B. NOVEMBER 7, 1944),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN RADIO TECHNOLOGY - PUNJAB '63; PRAGYA HINDI '86.

SPECIALIZATIONS : ELECTRONIC CIRCUITRY.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1966-86; TECHNICAL OFFICER (B), C.S.I.O. SINCE JUNE, 1986.

PRESENT ACTIVITIES : R & D IN MEDICAL INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 21, DEVELOPMENT - 24.

1203

MRS VINITA BHATNAGAR; (B. OCTOBER 28, 1948),

DOCUMENTATION OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - KANPUR '70; M.A. ENGLISH - KANPUR '72; DIPLOMA IN OFFICE ORGANISATION AND PROCEDURE - PANJAB '82.

SPECIALIZATIONS : INFORMATION DISSEMINATION; OFFICE MANAGEMENT.

EXPERIENCE : SR. DOCUMENTATION ASSISTANT, C.S.I.O., 1977-82; JR. DOCUMENTATION OFFICER (A), C.S.I.O., 1982-87; DOCUMENTATION OFFICER (B), C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : OFFICE ORGANISATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 5, ADM. - 4, DOCUMENTATION - 5, OFFICE MANAGEMENT - 8.

1204

SHRI J C BHATTACHARYA; (B. APRIL 20, 1941),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - CALCUTTA '61.

SPECIALIZATIONS : OPTICAL INSTRUMENTATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., C.S.I.O., 1963-80; SCIENTIST A, C.S.I.O., 1980-86; TECHNICAL OFFICER (B), C.S.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH, TESTING AND DEVELOPMENT OF OPTICAL INSTRUMENTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 16, TECH. DEV. - 16, CONSTRUCTION - 15, OPERATION - 15, TESTING - 8, QUALITY CONTROL - 15, MAINTENANCE - 16, TEACHING - 1, DEVELOPMENT - 19.

1205

SHRI V K BINDAL; (B. SEPTEMBER 9, 1949),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION,

QUALIFICATIONS: DIPLOMA IN ELECTRICAL ENGINEERING, HARYANA STATE TECH. EDUCATION BOARD '68.

SPECIALIZATIONS : ELECTRICAL ENGINEERING; ELECTRONICS.

EXPERIENCE : SUPERVISOR, M/S INDUSTRIAL CABLES(I) LTD., RAJPURA, 1968-70; S.L.A. J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1970-89; TECHNICAL OFFICER (B), C.S.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : EHT POWER SUPPLIES, MAINTENANCE AND OPERATION OF SOPHISTICATED INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, APPLIED RESEARCH - 5, DESIGN - 5, OPERATION - 5, TESTING - 3, QUALITY CONTROL - 2.

1206

SHRI H S CHAGAR; (B. DECEMBER 13, 1945),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '67.

SPECIALIZATIONS : OPTICAL DESIGN.

EXPERIENCE : DEMONSTRATOR, P.E.C.CH.D., 1967-68, S.L.A., J.S.A., S.S.A. AND SCIENTIST A, C.S.I.O., 1968-88; SCIENTIST B, C.S.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : OPTICAL SYSTEMS DESIGN.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, DESIGN & DEVELOPMENT - 21.

1207

SHRI KIRAN PRAKASH CHAUDHRY; (B. DECEMBER 7, 1950),

SCIENTIST B, SERVICE AND MAINTENANCE CENTRE , JAIPUR (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : B.SC. - DELHI '71; M.SC. PHYSICS - AGRA '74; POST DIPLOMA IN APPLIED ELECTRONICS AND MICROWAVE TECHNOLOGY - DELHI ADMINISTRATION '75.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.T.A. AND SCIENTIST A, C.S.I.O., 1979-87; SCIENTIST B, C.S.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : REPAIR AND SERVICE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 12, ADMINISTRATION - 2, DEVELOPMENT - 10. REPAIR & MAINTENANCE - 5.

1208

SHRI B L CHHABRA; (B. APRIL 10, 1941),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION,

QUALIFICATIONS: DIPLOMA IN MECH. ENGG.

SPECIALIZATIONS : DESIGN & DRAWING.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A1, C.S.I.O., 1971-89; SCIENTIST B C.S.I.O. SINCE APRIL. 1989.

PRESENT ACTIVITIES : MECHANICAL DESIGN AND DRAWING.

LANGUAGES : PUNJABI. HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DRAWING - 32.

1209

SHRI DHARAMPAL CHHACHHIA; (B. DECEMBER 8, 1955),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '77.

SPECIALIZATIONS : INSTRUMENT TECHNOLOGY; HOLOGRAPHY.

EXPERIENCE : S.T.A. AND SCIENTIST A, C.S.I.O., 1980-88; SCIENTIST B, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN HOLOGRAPHIC INSTRUMENTS.

LANGUAGES : HINDI. ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH & INVESTIGATION - 10.

1210

SHRI V B CHOWDRY; (B. JUNE 8, 1942),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - U.P. '67.

SPECIALIZATIONS : MECHANICAL WORKSHOP TECHNIQUES.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1970-85; SCIENTIST B, C.S.I.O. SINCE MARCH, 1985.

PRESENT ACTIVITIES : FABRICATION AND ASSEMBLY OF INSTRUMENTS/SYSTEMS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 22, PRODUCTION - 5, WORKSHOP FABRICATION & ANEMBLY - 20.

1211

SHRI S S GOSWAMI; (B. JULY 28, 1942),

TECHNICAL OFFICER (B), SERVICE & MAINTENANCE CENTRE, (C.S.I.O.), DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '65; DIPLOMA IN FORTRAN - DATAMATICS CORPORATION, DELHI '67.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1966-87; SCIENTIST B, S & M CENTRE (C.S.I.O.) SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 4, MAINTENANCE - 27, REPAIR & SERVICEING - 27, REPAIR & MAINTENANCE - 27.

1212

DR JAI PRAKASH GUPTA; (B. OCTOBER 10, 1940),

ASSOCIATE INSTRUCTOR (B), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : PH.D. HINDI - PANJAB '61; P.G. DIPLOMA IN TRANSLATION - PANJAB '79; M.A. HINDI - AGRA '88.

SPECIALIZATIONS : TRANSLATION.

EXPERIENCE : LECTURER, S.D.I. COLLEGE, GHAZIABAD, 1962-75; ASSOCIATE INSTRUCTOR (B), C.S.I.O. SINCE JANUARY, 1975.

PRESENT ACTIVITIES : TEACHING HINDI (TECHNICAL).

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 31.

1213

SHRI RAMESH CHANDRA GUPTA; (B. JUNE 6, 1954),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - ALLAHABAD '76; B.TECH. ELECTRONICS & TELECOMMUNICATION ENGINEERING - ALLAHABAD '79.

SPECIALIZATIONS : MEDICAL ELECTRONIC INSTRUMENTATION.

EXPERIENCE : S.R.F., J.K. INSTITUTE, ALLAHABAD, 1980-81; J.S.A., S.S.A. AND SCIENTIST A, C.S.I.O., 1981-85; SCIENTIST B, C.S.I.O. SINCE MAY, 1985.

PRESENT ACTIVITIES : R & D OF MEDICAL ELECTRONIC INSTRUMENTATION. INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 9, FUNDAMENTAL RESEARCH - 1.

1214

MRS KASTURI HEMAMALINI; (B. JUNE 18, 1947),

SCIENTIST B, SERVICE AND MAINTENANCE CENTRE, MADRAS (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : DIPLOMA IN ELECTRONICS - TAMIL NADU '65.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : GRADUATE APPRENTICE, S.L.A., J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1967-85; SCIENTIST B, C.S.I.O. SINCE JANUARY, 1985.

PRESENT ACTIVITIES : REPAIRS , SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 7, TECHNICAL DEV. - 3, CONSULTANCY - 3, TESTING - 4, MAINTENANCE - 4.

1215

SHRI ANIL PRAKASH JAIN; (B. OCTOBER 16, 1951),

ASSOCIATE INSTRUCTOR (B), I.S.T.C., CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN INSTRUMENT TECHNOLOGY - I.S.T.C., CHANDIGARH '72

SPECIALIZATIONS : PRECISION METROLOGY.

EXPERIENCE : S.T.A., C.S.I.O., 1975-79; ASSOCIATE INSTRUCTOR (B), C.S.I.O. SINCE AUGUST, 1979.

PRESENT ACTIVITIES : IMPARTING TRAINING IN PRECISION METROLOGY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : QUALITY CONTROL - 5, TEACHING - 8, IMPARTING TRAINING - 15

1216

SHRI SUNIL KHANNA; (B. JULY 24, 1953),

SCIENTIST B, SERVICE AND MAINTENANCE CENTRE, NEW DELHI (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : DIPLOMA IN INSTRUMENTS TECHNOLOGY - I.S.T.C. CHANDIGARH '72.

SPECIALIZATIONS : MAINTENANCE OF MECHANICAL INSTRUMENTS.

EXPERIENCE : TRAINEE TECHNICAL ASSISTANT, PUNJAB TRACTORS LTD., PUNJAB, 1972-73; S.T.A. AND SCIENTIST A, C.S.I.O., 1973-87; (ALSO TRAINING IN TOOL ROOM MACHINES, W. GERMANY & SWITZERLAND, 1973-74); SCIENTIST B, C.S.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : MAINTENANCE OF INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

VISITED : W. GERMANY, SWITZERLAND.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 15.

1217

SHRI DEEPAK KUMAR; (B. DECEMBER 20, 1954),

DOCUMENTATION OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.COM. - MEERUT '74; B.A. ECONOMICS - MEERUT '79.

SPECIALIZATIONS : PROJECT MANAGEMENT; ACCOUNTANCY.

EXPERIENCE : J.T.A., S.T.A. AND DOC. OFFICER (A), C.S.I.O., 1976-90; DOC. OFFICER (B), C.S.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : PLANNING, MONITORING & EVALUATION OF R & D PROJECTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 17.

1218

SHRI RAKESH KUMAR; (B. JANUARY 15, 1958),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. ELECTRONICS & SOLID STATE PHYSICS - PANJAB '81.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; X-RAY AND ELECTRON BEAM BASED INSTRUMENTATION.

EXPERIENCE : SCIENTIST B, C.S.I.O. SINCE DECEMBER, 1982.

PRESENT ACTIVITIES : X-RAY AND ELECTRON BEAM-BASED INSTRUMENTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECHNICAL REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5, DESIGN & DEVELOPMENT - 8, COMPUTER PROCESSING - 3.

1219

SHRI RAVINDRA KUMAR; (B. JULY 15, 1950),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATIONS, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL COMMUNICATION ENGG.

SPECIALIZATIONS : REPAIR & SERVICE OF INSTRUMENTS.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A1, C.S.I.O., 1971-88; TECHNICAL OFFICER (B), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : REPAIR, SERVICE AND MAINTENANCE OF INSTURMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTNANCE - 22.

1220

SHRI J C KUSHWAHA; (B. JUNE 1, 1944),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS/RADIO/COMMUNICATION ENGG. - I.A.F. BANGALORE '73.

SPECIALIZATIONS : ELECTRONICS; FIBER OPTICS; VHF/UHF COMMUNICATION SYSTEMS.

EXPERIENCE : CORPORAL, I.A.F., 1963-78; S.T.A. AND SCIENTIST A, C.S.I.O., 1979- 88; TECHNICAL OFFICER (B), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT AND FABRICATION OF FIBER OPTICS COMMUNICATION SYSTEM.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 8, RADIO FITTER - 16, REPAIR & MAINTENANCE - 15, DEVELOPMENT - 21.

1221

SHRI MAKHAN LAL; (B. AUGUST 15, 1942),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - PUNJAB '67.

SPECIALIZATIONS : CALIBRATION, TESTING AND EVALUATION OF ELECTRONIC/ELECTRICAL INSTRUMENTS; COMPONENTS AND ENVIRONMENTAL TESTING OF ELECTRONIC ITEMS.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST A, C.S.I.O., 1970-85; SCIENTIST B, C.S.I.O. SINCE OCTOBER, 1985.

PRESENT ACTIVITIES : TESTING, CALIBRATION AND EVALUATION OF ELECTRONIC/ ELECTRICAL INSTRUMENTS AND ENVIRONMENTAL TESTING OF ELECTRONIC ITEMS.

LANGUAGES : GUJARATI, HINDI, BENGALI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 28, TECHNICAL DEV. - 16, QUALITY CONTROL - 16, MAINTENANCE - 16.

1222

SHRI SHYAM LAL; (B. AUGUST 5, 1939),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL DRAUGHTSMAN - MINISTRY OF LABOUR & EMPLOYMENT, INDIA '59; B.A. - PANJAB '68; DIPLOMA IN MECHANICAL ENGINEERING - PUNJAB '77.

SPECIALIZATIONS : LENS DESIGN; MECHANICAL DESIGN.

EXPERIENCE :, COMPUTOR, I.S.I., NEW DELHI, 1960-61; COMPUTOR, FINE MECHANICS, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1961-84; SCIENTIST B, C.S.I.O. SINCE NOVEMBER, 1984.

PRESENT ACTIVITIES : OPTICAL & MECHANICAL DESIGN & COMPUTATION.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 28.

1223

SHRI VIJAY VINOD MAHAJAN; (B. OCTOBER 1, 1946),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : PRE-UNIVERSITY.

SPECIALIZATIONS : SCIENTIFIC GLASS BLOWING.

EXPERIENCE : JR. GLASS BLOWER, N.C.L., PUNE, 1963-65; FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1965-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : SCIENTIFIC GLASS BLOWING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24, CONSTRUCTION - 24. OPERATION - 24, DESIGN - 24, TESTING - 24, TECH. DEVELOPMENT - 15, CONSULTANCY - 15, SALES MARKETING - 22, R & D - 24, CONSULTANCY - 15, SALES MARKETING - 22, GLASS BLOWING WORK - 27.

1224

SHRI D K MALHOTRA; (B. OCTOBER 26, 1938),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN CRAFTSMANSHIP TURNER - I.T.I., DELHI '59; NATIONAL TRADE CERTIFICATE MACHINIST - I.T.I., PATIALA '65; NATIONAL TRADE CERTIFICATE FITTER - MINISTRY OF LABOUR AND EMPLOYMENT, GOVT OF INDIA '70.

SPECIALIZATIONS : TOOL AND CUTTER GRINDING.

EXPERIENCE : FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1963-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE MAY, 1986.

PRESENT ACTIVITIES : IMPARTING TRAINING IN TOOL AND CUTTER GRINDING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 27.

1225

SHRI KISHOR K PANTHI; (B. OCTOBER 25, 1967),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRONICS - BHOPAL '89.

SPECIALIZATIONS : T V ENGINEERING; MICROPROCESSORS AND COMPUTER AIDED DESIGN; MICROELECTRONIC INSTRUMENTATION; ELECTRONIC SPECTROPHOTOMETRY.

EXPERIENCE : SCIENTIST B, C.S.I.O. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 1, TECHNICAL DEV. - 1, TESTING - - 1.5, MAINTENANCE - 1.5, COMPUTER PROC. - 1.

1226

SHRI A N RADHAKRISHNAN; (B. MAY 9, 1942),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1227

SHRI SITA RAM; (B. JULY 25, 1945),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE RADIO MECHANIC - AMRITSAR '64; DIPLOMA IN ELECTRICAL ENGINEERING - PUNJAB '83.

SPECIALIZATIONS : SERVICE AND MAINTENANCE OF SCIENTIFIC INSTRUMENTS.

EXPERIENCE : RADIO MECHANIC, BIRLA INSTITUTE, PILANI, 1966-68; FINE MECHANIC J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1968-88; TECHNICAL OFFICER (B), C.S.I.O. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : SERVICE AND MAINTENANCE OF ELECTRICAL, ELECTRONIC AND ANALYTICAL INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 25, TEACHING - 1.

1228

MISS SUDHA V M RAO; (B. NOVEMBER 12, 1953),

SCIENTIST B, SERVICE AND MAINTENANCE CENTRE, JAIPUR (CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH).

QUALIFICATIONS : M.SC. PHYSICS - BANGALORE '75.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : J.R.F., J.T.A. AND S.T.A., N.A.L., BANGALORE, 1975-82; SCIENTIST A, C.S.I.O., 1982-87; (TRAINING IN DESIGN AND DEVELOPMENT OF UP BASED SYSTEMS USING MICROCOMPUTER DEVELOPMENT AIDS AT PHILLIPS UNIVERSAL, WEST GERMANY); SCIENTIST B, C.S.I.O. SICNE FEBRUARY, 1987.

PRESENT ACTIVITIES : SERVICE AND MAINTENANCE OF DIGITAL INSTRUMENTS.

LANGUAGES : KANNADA, HINDI, ENGLISH, GERMAN.

VISITED : WEST GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D - 10, REPAIRING & MAINTENANCE - 14.

1229

SHRI R S SACHDEVA; (B. JULY 1, 1944),

MECHANICAL ENGINEER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : HIGHER SECONDARY - C.B.S.E. '63; INSTRUMENT MECHANIC - I.T.I. DELHI '65.

EXPERIENCE : FINE MECHANIC, J.M.A., S.M.A. AND MECHANICAL ENGINEER (A), C.S.I.O. 1966-88; MECHANICAL ENGINEER (B), C.S.I.O. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES :

1230

SHRI BALRAM SHARMA; (B. APRIL 3, 1939),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - ALLAHABAD '58; I.T.I. (NTC) WELDING - CHANDIGARH '68.

SPECIALISATIONS : WELDING.

EXPERIENCE : MISTRY, FINE MECH., JR. MECH. ASSTT., SR. MECH. ASSTT. AND MECH. ENGR. (A), C.S.I.O., 1961-88; MECH. ENGR. (B), C.S.I.O. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : TEACHING.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 21.

1231

SHRI D D SHARMA; (B. OCTOBER 1, 1944),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE - PANJAB '62.

SPECIALIZATIONS : ELECTROMAGNETIC FLOWMETERS; PROCESS INSTRUMENTATION.

EXPERIENCE : T.C.M., CENTRAL EME WORKSHOP, AGRA, 1963-65; FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1965-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : DEVELOPMENT OF ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 12, QUALITY CONTROL - 10, REPAIR & MAINTENANCE - 2, DEVELOPMENT - 25.

1232

SHRI J D SHARMA; (B. MAY 3, 1945),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. (AG) - MEERUT '67.

EXPERIENCE : HORTICULTURE SUPTT., C.S.I.O., 1976-88; SCIENTIST B, C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MAINTENANCE & DEVELOPMENT OF HORTICULTURAL WORKS.

LANGUAGES : HINDI, ENGLISH, MARATHI, PUNJABI.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 20.

1233

SHRI SUNDER LAL SHARMA; (B. NOVEMBER 15, 1954),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '76; M.TECH. APPLIED OPTICS - I.I.T., DELHI '79.

SPECIALIZATIONS : ELECTRONICS; APPLIED OPTICS.

EXPERIENCE : S.R.F., S.S.A. AND SCIENTIST A, C.S.I.O., 1979-86; SCIENTIST B, C.S.I.O. SINCE JUNE, 1986.

PRESENT ACTIVITIES : R & D IN OPTICAL INSTRUMENTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. - 7, DESIGN DEVELOPMENT & TESTING - 11.

1234

SHRI V P SHARMA; (B. AUGUST 26, 1942),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN RADIO MECHANIC - PANJAB '62; DIPLOMA IN ELECTRICAL ENGINEERING - PANJAB '85.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : J.L.A., FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1965-86; TECHNICAL OFFICER (B), C.S.I.O. SINCE APRIL, 1986.

PRESENT ACTIVITIES : R & D IN DIGITAL ELECTRONIC INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, TESTING - 20, TECHNOLOGY TRANSFER - 10, DESIGN & DEVELOPMENT - 25.

1235

SHRI AMARJIT SINGH; (B. AUGUST 20, 1946),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '64; NATIONAL ELECTRICIAN TRADE CERTIFICATE '66.

SPECIALIZATIONS : REPAIR AND MAINTENANCE OF ELECTRICAL MACHINERY.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1972-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE JUNE, 1987.

PRESENT ACTIVITIES : SERVICE AND MAINTENANCE OF ELECTRICAL MACHINERY

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 10, IMPARTING TRAINING - 8.

1236

SHRI BALWINDER SINGH; (B. APRIL 5, 1944),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECH. ENGG.

SPECIALIZATIONS : TURNING; FITTING.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1968-90; TECHNICAL OFFICER (B), C.S.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : FITTER/TURNER TRADE IN MECHANICAL WORKSHOP.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : WORKSHOP FABRICATION - 22.

1237

SHRI BANT SINGH; (B. MAY 17, 1945),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I.(TURNER) - PUNJAB '64; MATRIC - PUNJAB '72.

SPECIALSIATIONS : PRECISION MACHINING.

EXPERIENCE : SCIENTIST A, C.S.I.O., 1985-90; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1990.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 25 YEARS).

1238

SHRI DEVINDER SINGH; (B. JUNE 19, 1940),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I. CERTIFICATE IN TURNING - DELHI '64.

SPECIALIZATIONS : PRECISION MACHINING & TURNING.

EXPERIENCE : MECHANIC, N.P.L., 1964-66; FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1966-88; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : WORKSHOP FABRICATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 23, TESTING - 23, WORKSHOP FABRICATION - 24.

1239

SHRI DHANWANT SINGH; (B. FEBRUARY 24, 1950),

TECHNICAL OFFICER (B), S & M CENTRE, NEW DELHI (CSIO, CHANDIGARH).

QUALIFICATIONS : I.T.I. CERTIFICATE IN RADIO AND TV - DELHI '70.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1971-90; TECHNICAL OFFICER (B), C.S.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : REPAIR AND MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 1, REPAIR & MAINTENANCE - 19.

1240

SHRI HARBANS SINGH; (B. JANUARY 15, 1939),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : TRADE CERTIFICATE IN TURNER - PUNJAB '75.

SPECIALISATIONS : TURNING; FITTING; MILLING.

EXPERIENCE : FINE MECHANIC, NML, JAMSHEDPUR, 1958-60; FINE MECHANIC, SCIENTIST A, C.S.I.O., 1960-88: TECHNICAL OFFICER (B), C.S.I.O. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT: WORKSHOP FABRICATION.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 27, TESTING - 27, QUALITY CONTROL - 27, PRODUCTION - 27, WORKSHOP FABRICATION - 32.

1241

SHRI HARDEEP SINGH; (B. NOVEMBER 12, 1968),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. ELECTRICAL ENGG. - PANJAB '90.

SPECIALIZATIONS : ANALOG CIRCUIT DESIGN.

EXPERIENCE : ENGINEER, SCL, MOHALI, 1990-91; SCIENTIST B, C.S.I.O. SINCE MARCH, 1992.

PRESENT ACTIVITIES : HEAD-UP-DISPLAY IN AVIONICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, QUALITY CONTROL - 1.

1242

SHRI JOGA SINGH; (B. AUGUST 10, 1954),

SCIENTIST B, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '76; COMPUTER PROGRAMMING - MADURAI THIAGARAJA COLLEGE OF ENGINEERING, MADURAI '85.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION; SOFTWARE DEVELOPMENT.

EXPERIENCE : J.L.A., J.S.A., S.S.A. AND SCIENTIST A, C.S.I.O., 1975-88; SCIENTIST B, C.S.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF SOFTWARE AND MICROPROCESSOR BASED INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 11, TESTING & QUALITY CONTROL - 1, DESIGN & DEVELOPMENT - 14.

1243

SHRI LALL SINGH; (B. MAY 15, 1947),

SCIENTIST B, CENTRAL SCIENTIFIC INSTUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1975-87; SCIENTIST B, C.S.I.O. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : ELECTRONIC DESIGN & DEVELOPMENT.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 18.

1244

SHRI M P SINGH; (B. JUNE 13, 1950),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PUNJAB '72.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY; FOUNDRY; PRECISION MECHANISM.

EXPERIENCE : S.T.A. AND SCIENTIST A, C.S.I.O., 1975-88; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : MECHANICAL DESIGN & DEVELOPMENT.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 15, TECHNICAL DEV. - 10, TESTING - 2, QULAITY CONTROL - 2, PRODUCTION - 3, PLANNING - 1.

1245

SHRI PREM SINGH; (B. JANUARY 5, 1939),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I. ELECTRICAL SUPERVISON CERTIFICATE '63; PRAGYA IN HINDI '68.

SPECIALIZATIONS : ELECTRICAL MAINTENANCE.

EXPERIENCE : ELECTRICIAN, FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1964-80; TECHNICAL OFFICER (B), C.S.I.O. SINCE NOVEMBER, 1980.

PRESENT ACTIVITIES : ELECTRICAL MAINTENANCER; REFREGERATON AND AIR CONDITIONING

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 29.

1246

SHRI PRITAM SINGH; (B. NOVEMBER 30, 1937),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I. CERTIFICATE IN WELDING - PANJAB '58.

SPECIALIZATIONS : WELDING.

EXPERIENCE : WORK SHOP ASSTT., MECHANIC, FINE MECHANIC, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1965-83; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1983.

PRESENT ACTIVITIES : WELDING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 20, CONSTRUCTION - 5, MAINTENANCE - 3, TEACHING - 2, WORKSHOP FABRICATION - 25.

1247

SHRI RANJIT SINGH; (B. FEBRUARY 15, 1957),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.E. - PANJABI '77; M.TECH. - DELHI '89.

SPECIALIZATIONS : ROBOTIC SENSORS; PROCESS CONTROL INSTRUMENTATION.

EXPERIENCE : SCIENTIST A, C.S.I.O., 1982-92; TECHNICAL OFFICER (B), C.S.I.O. SINCE MARCH, 1992.

1248

SHRI VIRENDRA PRAKASH SOOD; (B. JANUARY 6, 1943),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : CERTIFICATE IN MECHANICAL DRAUGHTSMANSHIP - PANJAB '61.

SPECIALIZATIONS : TECHNICAL DESIGN & DRAWING.

EXPERIENCE : DRAUGHTSMAN, M/S KRISHAN ENGG. WORKS, PATIALA, 1961; DRAUGHTSMAN, M/S ESCORTS LTD., PATIALA, 1961-62; JR. DRAUGHTSMAN, I.I.P., 1962-63; SR. DRAUGHTSMAN, S.T.A. AND SCIENTIST A, C.S.I.O., 1963-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE JUNE, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING IN DESIGN & DRAWING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN & DEVELOPMENT - 14, TEACHING - 20, IMPARTING TRAINING - 14.

1249

SHRI VIDYA BHUSHAN VOHRA; (B. JANUARY 23, 1935),

TECHNICAL OFFICER (B), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN FOUNDRY ENGINEERING - HARYANA '56.

SPECIALIZATIONS : INDUCTION MELTING.

EXPERIENCE : MOULDER, B.N. FOUNDRY, NEW DELHI, 1956; INSTRUCTOR, GOVT. POLYTECHNIC, UJJAIN (M.P.), 1956-67; J.T.A., S.T.A. AND SCIENTIST A, C.S.I.O., 1967-87; TECHNICAL OFFICER (B), C.S.I.O. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : FOUNDRY SHOP SUPERVISION; R & D.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 25.

1250

SHRI I K BINDRA; (B. NOVEMBER 10, 1941),

LIBRARY OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - PANJAB '65; B.ED. - PANJAB '67; B.LIB. SCIENCE - PANJAB '71.

SPECIALIZATIONS : LIBRARY SCIENCE; EDUCATION.

EXPERIENCE : CATALOGUER, ASSISTANT LIBRARIAN, LIB. ASSISTANT AND SR. LIB. ASST., C.S.I.O., 1974-91; LIBRARY OFFICER (A), C.S.I.O. FEBRUARY, 1991.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

1251

SHRI RAMESH CHANDRA; (B. JUNE 30, 1942),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - AGRA '66.

SPECIALIZATIONS : LIAISON; PUBLIC RELATIONS.

EXPERIENCE : J.L.A., S.L.A., TECHNICAL ASSISTANT AND S.T.A., C.S.I.O., 1968-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE FEBRUARY, 1991.

LANGUAGES : HINDI, ENGLISH.

1252

MRS KANTA GARG; (B. FEBRUARY 4, 1952),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : ELECTRONIC & RADIO ENGG. - PUNJAB '73.

SPECIALIZATIONS : PROCESS INSTRUMENTATION.

EXPERIENCE : KANPUR TRANIEE, GRADUATE G. TRANIEE, J.L.A., J.T.A. AND S.T.A., C.S.I.O., 1973-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE JULY, 1991.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

1253

SHRI SANTOKH SINGH GILL; (B. MARCH 14, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - PUNJAB '84.

SPECIALIZATIONS : PHOTOGRAPHY.

EXPERIENCE : LAB. ATTENDANT, J.L.A., F.M., J.T.A. AND S.T.A., C.S.I.O., 1964-90 TECHNICAL OFFICER (A), C.S.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : PHOTOGRAPHY.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

1254

SHRI D C JAIN; (B. JANUARY 1, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - CHANDIGARH '61; I.T.I., MECHANIC INSTRUMENT, - CHANDIGARH '66.

EXPERIENCE : WORKSHOP ASSTT., FINE MECH., J.M.A. AND S.M.A., C.S.I.O., 1968-86; TECHNICAL OFFICER (A), C.S.I.O. SINCE DECEMBER, 1986.

1255

SHRI R P KACKER; (B. JANUARY 15, 1947),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1256

SHRI J R KAMRA; (B. MARCH 5, 1942),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : HIGHER SECONDARY - RAJASTHAN '59; DRAUGHTSMAN MECH.- NATIONAL COUNCIL FOR VOCATIONAL TRAINING '61;MECH. ENGG. - PUNJAB STATE BOARD OF TECHNICAL EDUCATION '75.

SPECIALIZATIONS : MECHANICAL DRAWING, DESIGN AND DEVELOPMENT.

EXPERIENCE : DRAUGHTSMAN (MECH.), M/S BSN,TRL.MAF & ENGINEERS, NEW DELHI, 1961-6 DRAUGHTSMAN (MECH.), M/S SNOWHITE ENGINEERS ROHTAK ROAD, NEW DELHI, 1963-64 DRAUGHTSMAN (MECH.), M/S ESCORTS LIMITED MOTOR-SCOOTER DIV., FARIDABAD, 1964-65; ASSTT. DRAUGHTSMAN (MECH.), M/S PROTOTYPE PRODUCTION & TRAINING CENTRE, N.S.I.C., OKHLA, NEW DELHI, 1965-70; SENIOR DRAUGHTSMAN, J.T.A., AND S.T.A., C.S.I.O., 1970-87; TECHNICAL OFFICER (A), C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : MECHANICAL DRAWING, DESIGN AND DEVELOPMENT OF INSTRUMENTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, DRAWING AND DEVELOPMENT - 32.

1257

MISS JASJIT KAUR; (B. APRIL 26, 1950),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS & RADIO ENGG. - BOARD OF TECH. EDUCATION - CHANDIGARH '71.

SPECIALIZATIONS : MEDICAL ELECTRONICS; MICRO POSITIONING SYSTEMS.

EXPERIENCE : J.L.A., FINE MECH, J.T.A. AND S.T.A., C.S.I.O., 1971-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE AUGUST, 1991.

PRESENT ACTIVITIES : TESTING AND ASSEMBLING.

LANGUAGES : PUNJABI, ENGLISH, HINDI.

1258

SHRI TARSAME LAL; (B. MARCH 28, 1942),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '60; DIPLOMA IN MACHINING & TUNING TRADE - PUNJAB '66; C.T.I.C. MACHINIST TRADE - PUNJAB '69.

SPECIALIZATIONS : TECHNICAL DEVELOPMENT.

EXPERIENCE : TECHNICAL OFFICER (A), C.S.I.O. SINCE JANUARY, 1988.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 23.

1259

SHRI BADRI NATH; (B. FEBRUARY 7, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I., DRAUGHTSMAN MECH., I.I.T., PUNJAB '61.

SPECIALIZATIONS : DRAWING & DESIGN; MECHANICAL ENGINEERING.

EXPERIENCE : JUNIOR D/MAN, SENIOR D/MAN AND S.T.A., C.S.I.O., 1968-87; TECHNICAL OFFICER (A), C.S.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : ENGINEERING DESIGN.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

AWARDS & DISTINCTIONS : SUMMER SEWA STAR, MINISTRY OF DEFENCE SERVICES, 1962.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN , MECH ENGG (TOTAL : 31 YEARS).

1260

SHRI R S NAYYER; (B. OCTOBER 10, 1945),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION,

QUALIFICATIONS : I.T.I. IN RADIO ENGINEERING '65.

EXPERIENCE : INSTRUCTOR, F.MECHANIC, J.T.A. AND S.T.A., C.S.I.O., 1967-87; TECHNICAL OFFICER (A), C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : MEDICAL ELECTORNICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

1261

SHRI R S NEGI; (B. JUNE 8, 1945),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - U.P. BOARD '61; N.C.V.T. INSTRUMENTS MECH. - I.T.I., KANPUR '63.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.T.A. AND SENIOR TECH. ASSTT., C.S.I.O., 1964-88; TECHNICAL OFFICER (A), C.S.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 30.

1262

MRS LAKSHMI PANDEY; (B. JULY 1, 1956),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - JABALPUR '78.

SPECIALIZATIONS : WATER ANALYSIS.

EXPERIENCE : S.L.A., J.T.A., S.T.A., C.S.I.O., 1980-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : DEVELOPMENT OF CLINICAL BIOSENSOR AND WATER ANALYSIS.

LANGUAGES : HINDI, ENGLISH.

1263

SHRI S K SHARMA; (B. AUGUST 13, 1945),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1264

SHRI MOHD SIDDIQUE; (B. JANUARY 2, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - ALLAHABAD '63.

SPECIALIZATIONS : FABRICATION OF OPTICAL COMPONENTS.

EXPERIENCE : KHALASI, MECHANIC, FINE MECHANIC, J.T.A. AND S.T.A., C.S.I.O., 1965-87; TECHNICAL OFFICER (A), C.S.I.O. SINCE JULY, 1987.

PRESENT ACTIVITIES : OPTICAL/WORKSHOP TECHNOLOGY.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : FABRICATIONS - 28.

1265

SHRI CHARAN SINGH; (B. APRIL 12, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PANJAB '61.

SPECIALIZATIONS : PRECISION TURNING.

EXPERIENCE : KHALASI, WORKSHOP, ASSTT., MECHANIC, FINE MECH, JR. TECH. ASSTT. AND SR. TECH. ASSTT., C.S.I.O., 1965-90; TECHNICAL OFFICER (A), C.S.I.O. SINCE MAY, 1990.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

1266

SHRI DARSHAN SINGH; (B. MARCH 1, 1943),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - PUNJAB '65.

SPECIALIZATIONS : FITTING & ASSEMBLY OF INSTRUMENTS; SHEET METAL WORK.

EXPERIENCE : J.T.A. AND S.T.A., C.S.I.O., 1970-85: TECHNICAL OFFICER (A), C.S.I.O. SINCE JULY, 1985.

PRESENT ACTIVITIES : DEVELOPMENT OF LINEAR ACCELERATOR AND OTHER INSTRUMENTS(MECH. ENGG. PARTS).

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 17, MAINTENANCE - 17. TEACHING - 3, WORKSHOP FABRICATION - 20.

1267

SHRI DHARAM JIT SINGH; (B. JULY 28, 1955),

ASSISTANT ENGINEER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : PRE-ENGG. SCIENCE - PUNJAB '75; DIPLOMA CIVIL ENGG. - PUNJAB '78.

SPECIALIZATIONS : MAINTENANCE OF BUILDINGS & EARTH WORK.

EXPERIENCE : TECH. SUPERVISOR, CONTINENTAL CONSTRUCTION LTD, 1978; CIVIL OVERSEER CEC LTD. NEW DELHI, 1978-81; JUNIOR ENGINEER, C.S.I.O., 1981-91; ASSISTANT ENGINEER (A), C.S.I.O. SINCE MARCH, 1991.

1268

SHRI GURDAS SINGH; (B. MAY 12, 1937),

MECHANICAL ENGINEER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '56; CARPENTRY - I.T.I., CHANDIGARH '74.

SPECIALIZATIONS : CARPENTRY.

EXPERIENCE : CARPENTER, FINE MECHANIC, J.M.A. AND S.M.A.,C.S.I.O., 1965-86; MECHANICAL ENGINEER (A), C.S.I.O. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : REPAIR & MAINTENANCE IN CARPENTRY.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 28.

1269

SHRI GURIQBAL SINGH; (B. FEBRUARY 1, 1944),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA IN MECH. ENGG.

SPECIALIZATIONS : WORKSHOP TECHNOLOGY.

EXPERIENCE : J.T.A. AND S.T.A., C.S.I.O., 1970-87; SCIENTIST A, C.S.I.O. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : FABRICATION IN MECHANICAL WORKSHOP.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : WORKSHOP FABRICATION - 20.

1270

SHRI HARJINDER SINGH; (B. APRIL 1, 1941),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - ALLAHABAD '58; CIVIL DRAFTSMAN - JALLANDHAR '59; DRAFTSMAN SHIP ELECTRICAL/MECHANICAL - PUNJAB '62.

SPECIALIZATIONS : MECHANICAL DRAWING, DESIGN AND FABRICATION; INSTRUMENTATION.

EXPERIENCE : DRAFTSMAN MECHANICAL, LEADER ENGG. WORK, JALLANDHAR, 1962-71; MECHANICAL SUPERVISOR, HINDUSTAN STEEL FORGING, RAJPURA, 1971-73; SENIOR DRAFTMAN, JUNIOR TECHNICAL AND SENIOR TECHNICAL ASSISTANT, C.S.I.O., CHANDIGARH, 1979-90; TECHNICAL OFFICER (A), C.S.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : MECHANICAL DESIGN DRAWING & DEVELOPMENT.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS FILED CURRENTLLY.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, DESIGN - 30, TECHNICAL DEV. - 32, OPERATION - 2, TESTING - 4, QUALITY CONTROL - 2, PRODUCTION - 2, PLANNING - 9, EDITING - 20.

1271

SHRI JAGIR SINGH; (B. JULY 4, 1943),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : DIPLOMA RADIO, ELECTRONICS AND COMMUNICATION ENGINEERING - INDIAN AIR FORCE.

SPECIALIZATIONS : MEDICAL ELECTRONIC INSTRUMENTATION; RADIO/RADAR AND TELEVISION.

EXPERIENCE : S.T.A., C.S.I.O., 1980-85; SCIENTIST A, C.S.I.O. SINCE JUNE, 1985

PRESENT ACTIVITIES : R & D IN MEDICAL ELECTRONIC INSTRUMENTS.

LANGUAGES : HINDI, PUJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 2, TECHNICAL DEV. - 3, OPERATION - 5, TESTING - 2, QUALITY CONTROL - 2, MAINTENANCE - 10, PRODUCTION - 1, DEVELOPMENT - 10.

1272

SHRI NARINDER SINGH; (B. MARCH 4, 1940),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1273

SHRI NISHAN SINGH; (B. JANUARY 5, 1942),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : I.T.I. MECHANIC INSTRUMENTS - YAMUNA NAGAR '65.

SPECIALIZATIONS : SURVEYING INSTRUMENTS.

EXPERIENCE : INSTRUMENTS MECHANIC, SURVEY OF INDIA, DEHRADOON, 1966-71; FINE MECHANIC, J.T.A. AND S.T.A., C.S.I.O., 1971-86; TECHNICAL OFFICER (A), C.S.I.O. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : REPAIR & MAINTENANCE.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 27.

1274

SHRI RAGHBIR SINGH; (B. JANUARY 2, 1946),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : NATIONAL TRADE CERT. FROM UNION MIN. OF LABOUR.

SPECIALIZATIONS : FABRICATION OF ELECTRON OPTICAL INSTRUMENTS.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.M.A. AND S.T.A., C.S.I.O., 1968-87; SCIENTIST A, C.S.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : DEVELOPMENT & FABRICATION OF SEM(MECHANICAL COMPONENTS).

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : WORKSHOP FABRICATION - 8, DEVELOPMENT - 14.

1275

SHRI SAJJAN SINGH; (B. MAY 5, 1940),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '58; I.T.I., ELECTROPLATING, - PUNJAB '62; INTENSIVE TRAINING COURSE - NEW DELHI '63.

SPECIALIZATIONS : ELECTROPLATING.

EXPERIENCE : TECHNICAL OFFICER (A), C.S.I.O. SINCE APRIL, 1986.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 30 YEARS).

1276

SHRI SANTOKH SINGH; (B. AUGUST 24, 1946),

MECHANICAL ENGINEER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : TRADE CERTIFICATE TURNER - I.T.I., JAMMU '70.

SPECIALIZATIONS : TURNING; MILLING; FITTING.

EXPERIENCE : LAB. ASSISTANT, W/ASSISTANT, C.S.I.O., 1966-67; MECHANIC, R.R.L., JAMMU, 1967-71; PRE. MECH. AND J.M.A., C.E.E.R.I., 1971-85; S.M.A., C.S.I.O., 1985-90; MECHANICAL ENGINEER (A), C.S.I.O. SINCE JULY, 1990.

PRESENT ACTIVITIES : IMPARTING TECHNICAL TRAINING ON VARIOUS MACHINES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 30.

1277

SHRI SATNAM SINGH; (B. FEBRUARY 1, 1943),

SCIENTIST A, CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A; I.T.I. CERTIFICATE.

SPECIALIZATIONS : REPAIR & SERVICE OF INSTRUMENTS.

EXPERIENCE : J.T.A. AND S.T.A., C.S.I.O., 1963-84; SCIENTIST A, C.S.I.O. SINCE JULY, 1984.

PRESENT ACTIVITIES : REPAIR, SERVICE AND MAINTENANCE OF INSTRUMENTS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPAIR & MAINTENANCE - 27.

1278

SHRI SURJIT SINGH; (B. MARCH 1, 1948),

MECHANICAL ENGINEER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PANJAB '64; MACHINIST - I.T.I. PANJAB '66; MACHINIST C.T.I. - LUDHIANA '68.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.M.A. AND S.M.A., C.S.I.O., 1971-91; MECHANICAL ENGINEER (A) C.S.I.O. SINCE MARCH, 1991.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV - 22.

1279

SHRI TARA SINGH; (B. APRIL 3, 1940),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '58; I.T.I. CERT. - PUNJAB '62; ADVANCE TRG. IN FOUNDRY - RAJKOT '64; C T I COURSE - KANPUR '65.

SPECIALISATIONS : INDUCTION MELTING; FURNACE HANDLING.

EXPERIENCE : MOULDER/INSTRUCTOR, I.T.D., 1965-71; S.L.A., J.T.A. AND S.T.A., C.S.I.O., 1971-93; TECHNICAL OFFICER (A), C.S.I.O. SINCE JANUARY, 1993.

1280

SHRI K S SODHI; (B. MARCH 23, 1952),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PANJAB '69; NATIONAL TRADE CERTIFICATE - I.T.I., CHANDIGARH '70.

SPECIALIZATIONS : REFRIGERATION; AIR CONDITIONING.

EXPERIENCE : REFRIGERATION MECH. AND ASSISTANT REFRIGERATION MECH., P.G.I., 1971-74; TECHNICAL OFFICER (A), C.S.I.O. SINCE MAY, 1974.

LANGUAGES : PANJABI, ENGLISH, HINDI

1281

MISS BALA SUBRAMANIAM; (B. OCTOBER 16, 1949),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1282

MISS LALITA TANDON; (B. APRIL 9, 1949),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.SC. - PANJAB '74; B.ED. - PANJAB '76.

SPECIALIZATIONS : ORGANISATION; DISPLAY OF INSTRUMENTS; PROTOTYPES AND OTHER EXHIBITS.

EXPERIENCE : MUSEUM ASSISTANT, MUSEUM ASSISTANT GPGD III (1) AND MUSEUM ASSISTANT, C.S.I.O., 1976-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE MARCH, 1976.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

1283

SHRI D R TANEJA; (B. JUNE 15, 1945),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PUNJAB '61; I.T.I. - LUDHIANA '62; ADVANCE TRAINING INDO GERMAN PATTERN MAKING, OKHLA - NEW DELHI '63; INSTRUCTOR TRG. C.T.I. - CALCUTTA '65; CERTIFICATE CARPENTRY - I.T.I., PANIPAT '72.

EXPERIENCE : MECHANIC, FINE MECHANIC, J.T.A. AND S.T.A., C.S.I.O., 1967-86; TECHNICAL OFFICER (A), C.S.I.O. SINCE JULY, 1986.

1284

SHRI M L TUTEJA; (B. MARCH 14, 1940),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1285

SHRI K K VERMA; (B. DECEMBER 15, 1939),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : B.A. - MEERUT '74; PURCHASING & STOCK CONTROL, MATERIAL MANAGEMENT, - PANJABI '78.

SPECIALIZATIONS : MATERIALS MANAGEMENT.

EXPERIENCE : JR. LAB. ASSTT., C.S.I.O., 1962-87; TECHNICAL OFFICER (A), C.S.I.O. SINCE JULY, 1987.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL: 27 YEARS).

1286

SHRI B S VIRDI; (B. JUNE 15, 1939),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

1287

SHRI SURINDER SINGH WALIA; (B. APRIL 5, 1954),

TECHNICAL OFFICER (A), CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION, CHANDIGARH.

QUALIFICATIONS : MATRIC - PANJAB '70; INTERMEDIATE - BHOPAL '73; ELECTRONICS & RADIO ENGG. - PUNJAB '76.

EXPERIENCE : J.L.A., C.S.I.O., 1977-81; J.T.A, C.E.E.R.I., 1981-85; S.T.A., C.S.I.O., 1985-91; TECHNICAL OFFICER (A), C.S.I.O. SINCE MARCH, 1991.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

1288

DR H K GUPTA; (B. JUNE 28, 1942),

DIRECTOR, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS.) APPLIED GEOPHYSICS - I.S.M., DHANBAD '62; M.SC. APPLIED GEOPHYSICS - I.S.M., DHANBAD '63; A.I.S.M. GEOPHYSICS - I.S.M., DHANBAD; ONE YEAR COURSE IN SEISMOLOGY - INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING, TOKYO, JAPAN '67; PH.D. GEOPHYSICS - ROORKEE '70; ONE YEAR ADVANCED COURSE IN SEISMOLOGY - INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING, TOKYO, JAPAN '72.

SPECIALIZATIONS : SEISMOLOGY; GEOPHYSICAL EXPLORATION; SCIENCE ADMINISTRATION; GEOTHERMICS.

EXPERIENCE : S.S.A., CENTRAL SEISMOLOGICAL OBSERVATORY, SHILLONG, 1963-64; SCIENTIST, N.G.R.I., 1964-66; UNESCO FELLOW, INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING, TOKYO, JAPAN, 1966-67; SENIOR SCIENTIST, N.G.R.I., 1967-71; SENIOR UNESCO FELLOW, INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING, TOKYO, JAPAN, 1971-72; RESEARCH ASSOCIATE, THE UNIVERSITY OF TEXAS AT DALLAS, U.S.A., 1972-73; SENIOR SCIENTIST, N.G.R.I., 1973-74; RESEARCH ASSOCIATE, THE UNIVERSITY OF TEXAS AT DALLAS, U.S.A., 1974-75; SENIOR FOREIGN ENERGY FELLOW, NATIONAL SCIENCE FOUNDATION, U.S.A., 1975-76; RESEARCH SCIENTIST, THE UNIVERSITY OF TEXAS AT DALLAS, U.S.A., 1976-77; ASSISTANT DIRECTOR, N.G.R.I., 1977-82; DEPUTY DIRECTOR AND DIRECTOR-IN-CHARGE, CENTRE FOR EARTH SCIENCE STUDIES, TRIVANDRUM, 1982-84; PROJECT DIRECTOR, KERALA MINERAL EXPLORATION AND DEVELOPMENT PROJECT, UNDP, TRIVANDRUM, 1982-87; DIRECTOR, CENTRE FOR EARTH SCIENCE STUDIES, TRIVANDRUM, 1984-87; VICE CHANCELLOR, COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN, 1987-90; ADVISER, DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, 1990-92; DIRECTOR, N.G.R.I. SINCE JULY, 1992; (ALSO ADJUNCT PROFESSOR, THE UNIVERSITY OF TEXAS AT DALLAS, U.S.A. SINCE 1977).

PRESENT ACTIVITIES : RESEARCH AND RESEARCH MANAGEMENT IN GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH, JAPANESE.

VISITED : RUSSIA, MEXICO, SOUTH AFRICA, BANGKOK, CZECHOSLOVAKIA, JAPAN, ITALY, U.S.A., MALAWI, FRANCE, TURKEY, ZAMBIA, AUSTRALIA, SPAIN, AUSTRIA, CANADA, CAMEROON, SINGAPORE, NEW ZEALAND, PHILLIPPINES, GERMANY, CHINA, PAKISTAN, NEPAL, VENEZUELA.

PUBLICATIONS & PATENTS : RES. PAPERS - 94, SCIENTIFIC BOOKS - 3, TECHNICAL REPORTS - 10, ARTICLES - 20.

AWARDS & DISTINCTIONS : GOLDEN JUBILEE ALUMINI AWARD, INDIAN SCHOOL OF MINES, 1977; KRISHNAN GOLD MEDAL, INDIAN GEOPHYSICAL UNION, 1978; S S BHATNAGAR PRIZE IN EARTH SCIENCES, CSIR, 1983; USSR ACADEMY OF SCIENCES '100 YEARS OF OF INTERNATIONAL GEOPHYSICS' MEMORIAL MEDAL, 1985; THE FIRST 'DR ANIL KUMAR GANGULI' MEMORIAL ORATION AWARD, BARC, BOMBAY, 1989; NATIONAL MINERAL AWARD, GOVT OF INDIA, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10, TEACHING - 3, R & D MGNT. - 5, ADMN. - 3.

1289

DR J G NEGI; (B. AUGUST 1, 1936),

SCIENTIST H, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '56; M.SC. PHYSICS - AGRA '58; PH.D. GEOPHYSICS - I.I.T., KHARAGPUR '62; SAHITYA VISHARAD '50.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; THEORETICAL GEOPHYSICS; ASTROGEOPHYSICS.

EXPERIENCE : LECTURER, HOLKAR COLLEGE, INDORE, 1958-59; RESEARCH FELLOW AND PRINCIPAL INVESTIGATOR, I.I.T., KHARAGPUR, 1959-64; S.S.O.I., SCIENTIST EI, SCIENTIST EII, SCIENTIST F AND SCIENTIST G, N.G.R.I., 1964-90; (ALSO VISITING FELLOW, CIRES, U.S.A.; VISITING PROFESSOR, FEDERAL UNIVERSITIES OF BRAZIL, 1975-77; VISITING SCIENTIST, UNDER EXCHANGE PROGRAMMES IN HUNGARY, ROMANIA, AND W. GERMANY, 1981); SCIENTIST H, N.G.R.I. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D AND RESEARCH MANAGEMENT.

LANGUAGES : HINDI, ENGLISH, PORTUGUESE.

VISITED : U.S.S.R., CANADA, W. GERMANY, BRAZIL, U.S.A., FRANCE, U.K., ROMANIA, HUNGARY.

PUBLICATIONS & PATENTS : RES. PAPERS - 220, TECH REPORTS - 10, SCIENTIFIC BOOKS - 1.

AWARDS & DISTINCTIONS : KRISHNAN GOLD MEDAL, INDIAN GEOPHYSICAL UNION, 1973; FELLOW, ROYAL ASTRONOMICAL SOCIETY, 1979; S S BHATNAGAR PRIZE IN EARTH SCIENCES, CSIR, 1980; LIFE MEMBER, AMERICAN GEOPHYSICAL UNION, 1969.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. - 3, R & D MGMT. - 29, TEACHING - 3, EDITING - 6, COMPUTER PROCESSING - 3.

1290

DR K GOPALAN; (B. AUGUST 12, 1938),

SCIENTIST G, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - MADRAS '59; M.SC. NUCLEAR PHYSICS - ANDHRA '60; PH.D. PHYSICS - BANGLORE '66.

SPECIALIZATIONS : MASS SPECTROMETRY; COSMOCHRONOLOGY; GEOCHRONOLOGY; ISOTOPE GEOLOGY.

EXPERIENCE : FELLOW, T.I.F.R., 1970-73; FELLOW, ASSOCIATE PROFESSOR AND PROFESSOR, P.R.L., 1973-84; (ALSO POST DOCTORAL RESEARCH, U.S.A., 1966-69; RESEARCH TRAINING AND PROJECT WORK, U.S.A., 1982,1986-87 RESPECTIVELY); SCIENTIST F, N.G.R.I., 1984-90; SCIENTIST G, N.G.R.I. SINCE SEPT. 1990.

PRESENT ACTIVITIES : RESEARCH IN EARTH SCIENCE (ISOTOPES).

LANGUAGES : TAMIL, ENGLISH, HINDI.

VISITED : U.S.A., U.S.S.R., AUSTRALIA, JAPAN, U.K., AND FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 90, TECH. REPORTS - 1, ARTICLES - 1.

AWARDS & DISTINCTIONS : KRISHNAN GOLD MEDAL FOR GEOCHRONOLOGICAL RESEARCH, INDIAN GEOPHYSI-

CAL UNION, 1982; S S BHATNAGAR PRIZE IN EARTH SCIENCES, CSIR, 1982; FELLOW, INDIAN ACADEMY OF SCIENCES, 1982; FELLOW, INDIAN NATIONAL SCIENCE ACADEMY, 1986; MEDAL OF HONOUR, INDIAN SOCIETY FOR MASS SPECTROMETRY, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 27, CONSTRUCTION - 5, R & D MANAGEMENT - 5, ADMINISTRATION - 5.

1291

DR R N ATHAVALE; (B. JULY 26, 1938),

SCIENTIST F, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - POONA '57; M.SC. GEOLOGY - POONA '59; PH.D. GEOPHYSICS - POONA '70.

SPECIALIZATIONS : EARTH SCIENCES; GROUNDWATER STUDIES; PALEOMAGNETISM.

EXPERIENCE : RESEARCH ASSOCIATE, T.I.F.R., BOMBAY, 1959-66; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.G.R.I., 1966-86; SCIENTIST F, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN GEOHYDROLOGY.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : E.GERMANY, CZECHOSLOVAKIA, DENMARK, CANADA, U.S.A., W.GERMANY, ETHOPIA, NIGER, THE NETHERLANDS, JAPAN, THAILAND, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 49, TECH. REPORTS - 32, SCIENTIFIC BOOKS- 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, APP. RES. - 28, R & D MGMT. - 12, SURVEY OF NATURAL RESOURCES - 12, PLNG. - 12, ADMN. - 12.

1292

DR C P GUPTA; (B. JANUARY 12, 1937),

SCIENTIST F, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '56; M.SC. PHYSICS - VIKRAM '59; PH.D. GEOPHYSICS - ROORKEE '73.

SPECIALIZATIONS : GROUNDWATER MANAGEMENT; COMPUTER SCIENCE; GEOELECTROMAGNETICS; R & D MANAGEMENT.

EXPERIENCE : LECTURER, GOVERNMENT SCIENCE COLLEGE, GWALIOR, 1959-62; RESEARCH INVESTIGATOR, I.I.T., KHARAGPUR, 1962-65; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.G.R.I., 1965-86; SCIENTIST F, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN EXPLORATION AND MANAGEMENT OF GROUNDWATER RESOURCES; COORDINATOR. TECHNOLOGY MISSION ON DRINKING WATER; RESEARCH MANAGEMENT; COMPUTER APPLICATIONS.

LANGUAGES : HINDI, BENGALI, ENGLISH, TELUGU, FRENCH.

VISITED : CANADA, W. GERMANY, U.S.A., JAPAN, BOTSWANA, ZAMBIA, U.K., FRANCE, THE NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 57, TECH. REPORTS - 29.

AWARDS & DISTINCTIONS : KHOSLA RESEARCH AWARD, UNIVERSITY OF ROORKEE, 1971; FELLOW, INDIAN GEOPHYSICAL UNION; FELLOW, ASSOCIATION OF EXPLORATION GEOPHYSICISTS.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 28, R & D MGMT. - 23, TEACHING - 3, COMPUTER SYSTEMS MANAGEMENT - 16, PLANNING - 23, SURVEY OF NATURAL RESOURCES - 9.

1293

PROF P S MOHARIR; (B. APRIL 21, 1943),

SCIENTIST F, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - NAGPUR '62; M.SC. PHYSICS - NAGPUR '64; M.TECH. ELECTRONICS ENGINEERING - I.I.T., BOMBAY '66; PH.D. ELECTRONICS ENGINEERING - I.I.T., KANPUR '74.

SPECIALIZATIONS : SIGNAL PROCESSING; TIME SERIES MODELLING; TRANSFORM TECHNIQUES; DETERMINISTIC CHAOS.

EXPERIENCE : S.R.A., I.I.T KANPUR, 1970-71; LECTURER, B.I.T.S. PILANI, 1971-72; RESEARCH ASSOCIATE, UNIVERSITY OF ROORKEE, 1972; LECTURER AND ASSISTANT PROFESSOR, I.I.T., BOMBAY, 1972-77; READER AND PROFESSOR, UNIVERSITY OF ROORKEE, 1977-92; SCIENTIST F, N.G.R.I. SINCE MAY, 1992.

PRESENT ACTIVITIES : BASIC AND APPLIED RESEARCH IN SIGNAL PROCESSING AND TIME SERIES MODELLING.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : POPULAR SCIENCE BOOKS REVIEW - 5, RES.PAPERS - 125, TECH. REPORTS - 16, SCIENTIFIC BOOKS - 1, ARTICLES - 22.

AWARDS & DISTINCTIONS : J C BOSE MEMORIAL AWARD, 1974; S K MITRA MEMORIAL AWARD, 1985; S S BHATNAGAR PRIZE, CSIR, 1987.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 28, TEACHING - 18.

1294

DR MATHURES PODDAR; (B. JANUARY 24, 1939),

SCIENTIST F, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - CALCUTTA '59; M.TECH. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '62; PH.D. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '67.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; GEOPHYSICAL INSTRUMENTATION; COMPUTER SOFTWARE DESIGN.

EXPERIENCE : LECTURER AND ASSTT. PROFESSOR, I.S.M., DHANBAD, 1966-77; (ALSO HIGHER STUDIES, U.K., 1975; AND UNDP STUDY TOUR, U.S.A., CANADA AND AUSTRALIA, 1978); SCIENTIST EI AND SCIENTIST EII, N.G.R.I., 1977-87; (ALSO SENIOR DAAD FELLOWSHIP, 1987); SCIENTIST F, N.G.R.I. SINCE JUNE, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH, RUSSIAN.

VISITED : U.K., U.S.A., CANADA, AUSTRALIA, W.GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 7, DESIGN - 2, TEACHING - 11.

1295

DR RISHI NARAIN SINGH; (B. JULY 17, 1943),

SCIENTIST F, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - B.H.U. '62; M.SC. GEOPHYSICS - B.H.U. '64; PH.D. GEOPHYSICS - B.H.U. '69.

SPECIALIZATIONS : THEORETICAL GEOPHYSICS; GEOPHYSICAL FLUID DYNAMICS; GEOMAGNETISM; GEOELECTROMAGNETISM.

EXPERIENCE : S.S.A., SCIENTIST B, N.G.R.I., 1964-70; POSTDOCTORAL FELLOW, DALHOUSIE UNIVERSITY AND MEMORIAL UNIVERSITY, CANADA, 1970-73; SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.G.R.I., 1973-89; (ALSO ASSOCIATE PROFESSOR, INDIAN INSTITUTE OF GEOLOGY, BOMBAY, 1977-78); SCIENTIST F, N.G.R.I. SINCE FEBRUAURY, 1989.

PRESENT ACTIVITIES : RESEARCH IN THEORETICAL GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 50.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP. RES. - 19, R & D MGMT. - 6, COMPUTER PROCESSING - 13.

1296

SHRI PRAMOD KUMAR AGRAWAL; (B. JANUARY 1, 1944),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '64; M.SC. GEOPHYSICS - B.H.U. '66.

SPECIALIZATIONS : AIRBORNE GEOPHYSICAL SURVEYS; GROUND GEOPHYSICAL SURVEYS; SATELLITE MAGNETIC DATA PROCESSING AND INTERPRETATION; GEODYNAMICS OF INDIAN SUBCONTINENT.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1966-89; (ALSO TRAINING IN COMPUTERIZED POTENTIAL FIELD DATA PROCESSING AND INTERPRETATION, GERMANY, 1978-80); SCIENTIST EII, N.G.R.I. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : RESEARCH AND EXPLORATION.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 20, SURVEY OF NATURAL RESOURCES - 20, COMPUTER PROCESSING - 10.

1297

SHRI M ANTHONY; (B. AUGUST 9, 1944),

ASSISTANT ENGINEER (EII), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1298

DR A APPARAO; (B. NOVEMBER 11, 1936),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - UTKAL '56; B.SC. (HONS.) GEOLOGY & GEOPHYSICS - I.I.T., KHARAGPUR '59; M.SC. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '66; PH.D. GEOPHYSICS - JADAVPUR '73.

SPECIALIZATIONS : GEOPHYSICAL SURVEYS; MINERAL EXPLORATION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C, AND SCIENTIST EI, N.G.R.I., 1960-87; (ALSO TRAINING IN ELECTRICAL PROSPECTING, GERMANY, 1976-77); SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN EXPLORATION GEOPHYSICS; RESEARCH GUIDE FOR PH.D. STUDENTS.

LANGUAGES : TELUGU, HINDI, ORIYA, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 25, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 3.

1299

DR V BABURAO; (B. MARCH 20, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '62; M.S. GEOPHYSICS - UNIVERSITY OF HAWAII, U.S.A. '70; PH.D. GEOPHYSICS - ANDHRA '89.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; AIRBORNE GEOPHYSICAL SURVEYS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1963-88; SCIENTIST EII, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D; AIRBORNE GEOPHYSICAL SURVEYS; INTERPRETATION OF GRAVITY & MAGNETIC DATA.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A., CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 9, PAPERS PRESENTED - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 5, APP. RES. - 20, SURVEY OF NATURAL RESOURCES - 20, COMPUTER PROCESSING - 5.

1300

SHRI M A BAIG; (B. OCTOBER 7, 1943),

EXECUTIVE ENGINEER (EII), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1301

DR MOHAN SINGH BHALLA; (B. MAY 12, 1939),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) APPLIED GEOPHYSICS - BHAGALPUR '60; M.SC. APPLIED GEOPHYSICS - RANCHI '61; A.I.S.M. APPLIED GEOPHYSICS - I.S.M. '61; PH.D. APPLIED GEOPHYSICS - I.S.M. '70.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; PALEOMAGNETISM; INFORMATION DISSEMINATION; EDITING.

EXPERIENCE : LECTURER, GOVERNMENT COLLEGE, PUNJAB, 1962; J.R.F., INDIAN SCHOOL OF MINES, DHANBAD, 1962; S.S.A., C.M.R.S. DHANBAD, 1962-63; SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1963-88; SCIENTIST EII, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.S.S.R., U.K..

PUBLICATIONS & PATENTS : RES. PAPERS - 80, TECH. REPORTS - 15.

AWARDS & DISTINCTIONS : FELLOW, INDIAN GEOPHYSICAL UNION; FELLOW, GEOLOGICAL SOCIETY OF INDIA; FELLOW, INDIAN ACADEMY OF GEOSCIENCES; FELLOW, ASSOCIATION OF HYDROLOGISTS OF INDIA; ALUMNI AWARD, INDIAN SCHOOL OF MINES, 1978.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 29, CONSULTANCY - 19, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 5, ADMN. - 5, EDITING - 16.

1302

SHRI SATISH CHANDER BHATIA; (B. AUGUST 12, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '61; B.SC. (HONS.) GEOLOGICAL SCIENCES - I.I.T., KHARAGPUR '63; M.SC. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '65.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; COMPUTER SOFTWARE; SEISMOLOGY; GRAVITY.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C, AND SCIENTIST EI, N.G.R.I., 1966- 87; (ALSO ADVANCED TRAINING, GERMANY, 1971-72); SCIENTIST EII, N.G.R.I. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D IN GEOPHYSICS.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, JAPAN, ITALY, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 24, SURVEY OF NATURAL RESOURCES - 1, COMPUTER PROCESSING - 22.

1303

DR N KRISHNA BRAHMAM; (B. JULY 1, 1936),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. APPLIED GEOPHYSICS - ANDHRA '59; PH.D. GEOPHYSICS - ANDHRA '65.

SPECIALIZATIONS : GRAVITY STUDIES; SEISMIC HAZARDS; MAGNETIC STUDIES; GROUNDWATER SURVEYS; MINERAL EXPLORATION.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1963-87; SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN GRAVITY TECHNIQUES OF GEOPHYSICAL METHODS IN GEOLOGICALLY CRITICAL REGIONS.

LANGUAGES : TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 38, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 28, CONSULTANCY - 3, TEACHING - 4, SURVEY OF NATURAL RESOURCES - 6.

1304

DR THIRMANDAS NARAYAN GOWD; (B. OCTOBER 10, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '61; M.SC. GEPPHYSICS - OSMANIA '64; PH.D. GEOPHYSICS - OSMANIA '76.

SPECIALIZATIONS : ROCK MECHANICS; MECHANICS OF MINING GROUND; STRESS MODELLING AND PLATE TECTONICS.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1964-88; (ALSO HIGHER RESEARCH AND TRAINING IN ROCK MECHANICS, W. GERMANY, 1971-73; TO PROCESSED INTERPRET HYDROFRAC DATA AND TO EVALUATE THE IN-SITU STRESS REGIME IN THE UNDERGROUND OF KOLAR GOLD FIELDS, FRANCE, 1982-83 AND TO WORK ON BRITTLE FRACTURE PROPOGATION IN ROCKS, U.S.A. 1986); SCIENTIST EII, N.G.R.I. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : ENGINEERING APPLICATIONS OF HYDRAULIC FRACTURING TECHNOLOGY.

LANGUAGES : TELUGU, HINDI, GERMAN, ENGLISH.

VISITED : W.GERMANY, FRANCE, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH. REPORTS - 14, POPULAR SCIENCE BOOKS - 1, PROCESS DEVELOPED - 3, PROCESS UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 23, APP. RES. - 17, DESIGN - 6, TESTING - 7, R & D - 11.

1305

DR MADHU SUDAN JOSHI; (B. OCTOBER 22, 1940),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - VIKRAM '61; M.SC. PHYSICS - VIKRAM '63; PH.D. PHYSICS - SAUGAR '67.

SPECIALIZATIONS : OCEAN ACOUSTIC TOMOGRAPHY; GEOELECTROMAGNETICS; MARINE GEOPHYSICS AND GEODYNAMICS; SOLID STATE PHYSICS AND OPTICAL PROPERTIES; WIRELESS AND ELECTRONICS.

EXPERIENCE : J.R.F. AND ASSISTANT PROFESSOR, UNIVERSITY OF SAUGAR, 1963-67; ASSISTANT LECTURER, M.A. COLLEGE OF TECHNOLOGY, BHOPAL, 1967-68; S.R.F., SCIENTIST B , SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1968-88; (ALSO FOR THE SCALE MODEL STUDIES ON CONVECTION INSIDE THE EARTH AND SATELLITE PHOTO- INTERPRETATION FOR TECTONIC STUDIES, U.K., 1975-76); SCIENTIST EII, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : OCEAN ACOUSTIC TOMOGRAPHY; R & D MANAGEMENT IN GEOPHYSICS GEOELECTROMAGNETICS AND MARINE GEOPHYSICS, SCIENCE FOR SOCIETY AND QUALITY OF LIFE.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH REPT - 2.

AWARDS & DISTINCTIONS : FELLOW, INDIAN GEOPHYSICAL UNION; BEST RESEARCH PAPER AWARD, SOCIETY OF THEORETICAL GEOPHYSICISTS, 1972.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, APP. RES. - 22, R & D MGMT. - 18, TEACHING - 4, PLANNING -18, EDITING - 6.

1306

DR V G KRISHNA; (B. JANUARY 1, 1945),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '65; PH.D. GEOPHYSICS - I.S.M. DHANBAD '80.

SPECIALIZATIONS : GEOPHYSICS; SEISMOLOGY; COMPUTER SOFTWARE.

EXPERIENCE : TECHNICAL ASSISTANT GR. I, O.N.G.C., DEHRA DUN, 1967; J.R.F., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1967-88; (ALSO TRAINING IN EXPLOSION SEISMOLOGY, GERMANY, 1982 AND SOFTWARE DEVELOPMENT IN SEISMIC DATA PROCESSING, FRANCE, 1989); SCIENTIST EII, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN PROCESSING AND INTERPRETATION OF LITHOSPHERIC SEISMIC DATA; COMPUTER SOFTWARE.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : GERMANY, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, TECH. REPORTS - 5, PAPERS PRESENTED - 30, PATENTS FILED - 1, PROCESSES DEVELOPED - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 15, COMPUTER PROCESSING - 18.

1307

DR K MALLICK; (B. DECEMBER 21, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '64; PH.D. - APPLIED GEOPHYSICS - I.S.M. '74.

SPECIALIZATIONS : MINERAL EXPLORATION; GROUNDWATER EXPLORATION; REMOTE SENSING AND SEISMICS.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1965-86; (ALSO SENIOR PROJECT SCIENTIST, I.I.T. BOMBAY, 1978-81 AND 1981- 83), SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D; GEOPHYSICAL EXPLORATION; REMOTE SENSING METHOD FOR RESOURCE STUDIES; SEISMICS IN OIL EXPLORATION.

LANGUAGES : HINDI, ORIYA, BENGALI, SANSKRIT, GERMAN, AND ENGLISH.

VISITED : W. GERMANY, U.K., SWEDEN, ITALY, SIERRA LEONE.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, TECH. REPORTS - 12, SCIENTIFIC BOOKS - 2.

AWARDS & DISTINCTIONS : S S BHATNAGAR PRIZE IN EARTH SCIENCES, CSIR, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC & APPLIED RES. - 22.

1308

SHRI V M MARU; (B. MAY 20, 1939),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - BOMBAY '60; M.SC. PHYSICS - BOMBAY '63.

SPECIALIZATIONS : COMPUTER DATA PROCESSING; COMPUTER PROGRAMMING; COMPUTER SYSTEMS ORGANISATION.

EXPERIENCE : DEMONSTRATOR. KHALSA COLLEGE, BOMBAY, 1963-64; S.S.A., SCIENTIST A. SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1964-86; SCIENTIST EII, N.G.R.I. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : UTILISATION OF COMPUTER SYSTEMS AND DEVELOPMENT OF COMPUTER PROGRAMMING.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6. TECH. DEV. - 11, OPERATION - 2, TESTING - 1, MAINTENANCE - 3, PRODN. - 5, TEACHING - 1. COMPUTER PROCESSING - 9.

1309

DR D C MISHRA; (B. JULY 1, 1943),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - BANARAS '61; M.SC. GEOPHYSICS - BANARAS '63; PH.D. GEOPHYSICS - BANARAS '66.

SPECIALIZATIONS : GRAVITY-MAGNETIC DATA PROCESSING AND INTERPRETATION; MINERAL EXPLORATION; TECTONICS; AIRBORNE DATA PROCESSING AND INTERPRETATION.

EXPERIENCE : J.R.F., C.S.I.R., 1963-65; LECTURER, B.H.U., 1965-66; S.R.F., SCIENTIST B, SCIENTIST C, AND SCIENTIST EI, N.G.R.I., 1967-86; (ALSO RESEARCH IN THE INTERPRETATION OF MAGNETIC DATA, W.GERMANY, DENMARK, 1972-74, 1979-81); SCIENTIST EII, N.G.R.I. SINCE FEBRUAURY, 1986.

PRESENT ACTIVITIES : INTERPRETATION OF GRAVITY-MAGNETIC DATA AND STUDY OF THE INDIAN LITHOSPHERE.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, DENMARK.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 5, APP. RES. - 10, TEACHING - 1, SURVEY OF NAT. RERSOURCES - 7, GEODYNAMICS STUDIES - 5.

1310

SHRI P RADHA KRISHNA MURTY; (B. NOVEMBER 9, 1938),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '61; M.TECH. GEOPHYSICS - ANDHRA '64.

SPECIALIZATIONS : DEEP SEISMIC SOUNDING; EXPLORATION GEOPHYSICS.

EXPERIENCE : SENIOR GEOPHYSICAL ASSISTANT, O.N.G.C., 1965-72; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1972-88; SCIENTIST EII, N.G.R.I. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : R & D IN DEEP SEISMIC SOUNDING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 26, SURVEY OF NATURAL RESOURCES - 26.

1311

DR S M NAQVI; (B. AUGUST 28, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - A.M.U. '62; M.SC. GEOLOGY - A.M.U. '64; PH.D. GEOLOGY - A.M.U. '70.

SPECIALIZATIONS : PRECAMBRIAN GEOLOGY AND GEOCHEMISTRY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I. 1964-86; SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D AND RESEARCH MANAGEMENT IN PRECAMBARIAN CRUSTAL EVOLUTION.

LANGUAGES : HINDI, URDU, ENGLISH.

VISITED : U.K., U.S.A., AUSTRALIA, CANADA, SRI LANKA, FRANCE, ITALY, YUGOSLAVIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 110, SCIENTIFIC BOOKS - 6.

AWARDS & DISTINCTIONS : MYSORE GEOLOGISTS' GOLD MEDAL, GEOLOGICAL SOCIETY OF INDIA, 1976; S S BHATNAGAR PRIZE, CSIR, 1983; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. - 26.

1312

SHRI T RAMA MOHAN PRASAD; (B. JUNE 22, 1944),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '65.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : J.R.F., OSMANIA UNIVERSITY, 1965-66; S.S.A., N.G.R.I., 1966-71; LECTURER, OSMANIA UNIVERSITY, 1971-76; (ALSO TRAINING IN EXPLORATION GEOPHYSICS, U.S.S.R., 1973-74 AND IN APPLIED GEOPHYSICS, U.S.A., 1979); SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1976-87; SCIENTIST EII, N.G.R.I. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : R & D IN GEOPHYSICAL INSTRUMENTS FOR MINERAL EXPLORATION.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13, DESIGN - 6, TESTING - 3, TEACHING - 5, SURVEY OF NATURAL RESOURCES - 6.

1313

DR INDUGULA RADHAKRISHNA; (B. AUGUST 15, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOLOGY - ANDHRA '62; M.SC. GEOLOGY - ANDHRA '63; PH.D. GEOLOGY - ANDHRA '77.

SPECIALIZATIONS : HYDROGEOLOGY; SEDIMENTOLOGY.

EXPERIENCE : J.R.F. AND S.R.F., ANDHRA UNIVERSITY, 1963-68; ASSISTANT HYDROGEOLOGIST AND JUNIOR HYDROGEOLOGIST, CENTRAL GROUNDWATER BOARD, 1968-75; SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1975-1988; (ALSO TRAINING IN HYDROGEOLY. GERMANY, 1979); SCIENTIST EII, N.G.R.I. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : RESEARCH IN HYDROGEOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : W. GERMANY, NEPAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 20, BASIC DATA REPORTS - 50.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 20, R & D MGMT. - 12.

1314

DR D ATCHUTA RAO; (B. MAY 15, 1939),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '62; PH.D. GEOPHYSICS - ANDHRA '74.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS AND AIRBORNE GEOPHYSICAL SURVEYS.

EXPERIENCE : MEMBER, SCHOOL OF PHYSICS, T.I.F.R., BOMBAY, 1962-63; J.R.F., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1963-86; (ALSO TRAINING IN AIRBORNE GEOPHYSICAL SURVEYS AND INTERPRETATION, AUSTRALIA, 1974-76); SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN TECHNIQUES FOR INTERPRETATION OF POTENTIAL FIELD DATA; AIRBORNE GEOPHYSICAL SURVEYS DATA PROCESSING AND INTERPRETATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : AUSTRALIA, U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 28.

1315

DR V DIVAKARA RAO; (B. JANUARY 7, 1941),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOLOGY - ANDHRA '61; M.SC. GEOLOGY - ANDHRA '62; PH.D. GEOLOGY - ANDHRA '70.

SPECIALIZATIONS : GEOCHEMISTRY; NUCLEAR GEOLOGY; GEOCHEMICAL EXPLORATION.

EXPERIENCE : J.R.F., DEPARTMENT OF ATOMIC ENERGY, 1962-65; S.S.A., J.S.O., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTITST EI. N.G.R.I., 1965-89; (ALSO VISITING PROFESSOR, UNIVERSITY OF BRAZILIA, 1987-88); SCIENTIST EII, N.G.R.I. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : FRANCE, BRAZIL.

PUBLICATIONS & PATENTS : RES. PAPERS - 106, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, APP. RES. - 8. R & D MGMT. - 5, SURVEY OF NATURAL RESOURCES - 5.

1316

DR BAL KRISHNA RASTOGI; (B. AUGUST 10, 1943),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOPHYSICS - I.S.M., DHANBAD '65; M.SC. APPLIED GEOPHYSICS - I.S.M., DHANBAD '66; PH.D. GEOPHYSICS - I.S.M., DHANBAD '72; DIPLOMA - I.I.S.E.E., JAPAN '75.

SPECIALIZATIONS : SEISMOLOGY; GEOPHYSICAL SURVEYS; TECTONICS; COMPUTER PROGRAMMING.

EXPERIENCE : TECHNICAL ASSISTANT GR. I, O.N.G.C., 1967-68; S.S.A., SCIENTIST B, SCIENTIST C, AND SCIENTIST EI, N.G.R.I., 1968-89; (ALSO ADVANCED TRAINING IN SEISMOLOGY, INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE, JAPAN, 1974-75 AND POST-DOCTORAL FELLOW, U.S.A., 1977-80); SCIENTIST EII, N.G.R.I. SINCE MARCH, 1989.

PRESENT ACTIVITIES : RESEARCH IN SEISMOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN, U.S.A., EGYPT, KUWAIT, U.S.S.R., NEPAL, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 48, TECH. REPORTS - 37, SCIENTIFIC BOOKS - 1, BOOK EDITED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 22, SURVEY OF NATURAL RESOURCES - 1.

1317

DR U RAVAL; (B. JANUARY 6, 1942),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - VIKRAM '61; M.SC. PHYSICS - VIKRAM '64; PH.D. PHYSICS - JIWAJI '72.

SPECIALIZATIONS : ELECTROMAGNETIC PROCESSES AND PHENOMENA; ELECTROMAGNETIC INDUCTION; NUMERICAL MODELLING; APPLIED MATHEMATICS.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1964-88; (ALSO POST DOCTORAL FELLOW, UNIVERSITY OF VICTORIA, CANADA, 1972-73) SCIENTIST EII, N.G.R.I. SINCE MARCH, 1988.

PRESENT ACTIVITIES : RESEARCH IN ELECTROMAGNETIC INDUCTION IN THE EARTH.

LANGUAGES : HINDI. ENGLISH.

VISITED : CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 27.

AWARDS & DISTINCTIONS : BEST RESEARCH CONTRIBUTION AWARD, SOCIETY OF THEORETICAL GEOPHYSICISTS, 1970.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19.

1318

DR P RAMACHANDRA REDDY; (B. AUGUST 15, 1942),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '61; M.SC. (TECH.) GEOPHYSICS - ANDHRA '64; PH.D. GEOPHYSICS - ANDHRA '72; CERTIFICATE IN COMPUTER PROGRAMMING - I.I.T., KANPUR '68.

SPECIALIZATIONS : SEISMOLOGY; DEEP SEISMIC SOUNDING; COMPUTER PROGRAMMING; SCIENTIFIC MANAGEMENT OF MINOR IRRIGATION PROGRAMMES.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1964-87; (ALSO TRAINING IN DEEP SEISMIC SOUNDING STUDIES U.S.S.R., 1971); SCIENTIST EII. N.G.R.I. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : SCIENTIFIC MANAGEMENT, PLANNING AND RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 43, SCIENTIFIC BOOKS - 1, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26, APP. RES. -19, R & D MGMT. -18, SURVEY OF NATURAL RESOURCES -19, TECHNO-ECONOMIC SURVEYS - 17, PLANNING - 18, ADMN. - 17, COMPUTER PROCESSING - 23.

1319

SHRI S I REDDY; (B. MARCH 3, 1943),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '61; M.SC. (TECH.) APPLIED PHYSICS - ANDHRA '64.

SPECIALIZATIONS : SEISMOLOGY; SOFTWARE DEVELOPMENT.

EXPERIENCE : DEMONSTRATOR, ANDHRA UNIVERSITY, WALTAIR, 1965; TECHNICAL ASSISTANT GRADE I AND JUNIOR GEOPHYSICIST, O.N.G.C., 1965-78; SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1978-88; SCIENTIST EII, N.G.R.I. SINCE, DECEMBER, 1988.

PRESENT ACTIVITIES : R & D IN SEISMOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH REPORT - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, SURVEY OF NATURAL RESOURCES - 20, COMPUTER PROCESSING - 15.

1320

DR P D SARAF; (B. APRIL 6, 1942),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - SAUGAR '63; M.SC. PHYSICS - RAVI SHANKAR '65; PH.D. PHYSICS - RAVI SHANKAR '73.

SPECIALIZATIONS : GEOELECTROMAGNETISM.

EXPERIENCE : LECTURER, GOVERNMENT ENGINEERING COLLEGE, JABALPUR, 1965-1967; J.R.F., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1967-90; SCIENTIST EII, N.G.R.I., SINCE MARCH, 1990.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

VISITED : CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 28, TECH. REPORTS - 1, BOOK - 1.

AWARDS & DISTINCTIONS : BEST RESEARCH PAPER AWARD, SOCIETY OF THEORETICAL GEOPHYSICISTS, 1971-72.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23, TEACHING - 2.

1321

DR D D SARMA; (B. SEPTEMBER 8, 1940),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.A. MATH. ECONOMICS - ANDHRA '64; M.SC. STATISTICS - ANDHRA '65; PH.D. STATISTICS - ANDHRA '75.

SPECIALIZATIONS : OPERATIONAL RESEARCH; COMPUTER SOFTWARE AND SYSTEMS; GEOSTATISTICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I. 1966-88; (ALSO TRAINING IN OPERATIONAL RESEARCH AND COMPUTER METHODS, U.K. 1974, POST-DOCTORAL RESEARCH ASSOCIATE, U.S.A., 1978 AND VISITING SCIENTIST AT CENTRE DE GEOSTATISTIQUE, FONTAINEBLEAU, FRANCE UNDER EXCHANGE PROGRAMME); SCIENTIST EII, N.G.R.I., SINCE APRIL, 1988.

PRESENT ACTIVITIES : SCIENTIFIC APPLICATION AND DEVELOPMENT OF OPERATIONS RESEARCH, GEOSTATISTICAL AND COMPUTER METHODS FOR GEOLOGICAL AND GEOPHYSICAL PROBLEMS.

LANGUAGES : TELUGU, ENGLISH, GERMAN.

VISITED : U.K., U.S.A., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH. REPORTS - 9, SCIENTIFIC BOOKS - 1, COMPUTER SOFTWARE DOCUMENTATION - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24, SURVEY OF NATURAL RESOURCES - 1, COMPUTER PROCESSING - 24.

1322

DR S V S SARMA; (B. MARCH 21, 1940),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '59; M.SC. (TECH.) APPLIED GEOPHYSICS - ANDHRA '62; PH.D. GEOPHYSICS - ANDHRA '72.

SPECIALIZATIONS : TELLURICS AND MAGNETOTELLURICS EXPLORATION METHODS; EXPLORATION GEOPHYSICS; GEOMAGNETISM AND MAGNETOSPHERIC PHYSICS.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1963-86; (ALSO TRAINING IN MAGNETOSPHERIC PHYSICS. GERMANY, 1965-66); PARTICIPATED IN MAGANETOTELLURIC AND INVESTIGATION BUREAU MINERAL RESOURCES AUSTRALIA, 1978); SCIENTIST EII, N.G.R.I., SINCE APRIL, 1986.

PRESENT ACTIVITIES : RESEARCH STUDIES IN TELLURICS AND MAGNETOTELLURICS.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, TECH. REPORTS - 16, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 13.

1323

DR B S SUKHIJA; (B. MARCH 15, 1944),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) APPLIED GEOPHYSICS - RANCHI '65; M.SC. APPLIED GEOPHYSICS - RANCHI '66; A.I.S.M. APPLIED GEOPHYSICS - I.S.M.,DHANBAD '66; PH.D. PHYSICS (ISOTOPE HYDROLOGY) - BOMBAY '73.

SPECIALIZATIONS : NUCLEAR ISOTOPE HYDROLOGY; APPLIED GEOPHYSICS; ENVIRONMENTAL AND INJECTED TRACERS; GROUNDWATER RESOURCES.

EXPERIENCE : RESEARCH SCHOLAR, T.I.F.R., BOMBAY, 1966-72; (ALSO TRAINING IN WATER RESOURCES DATA ANALYSIS FOR WATER MANAGEMENT, CZECHOSLOVAKIA, 1970); SCIENTIST B, N.G.R.I., 1972-77; (ALSO ADVANCED TRAINING IN NUCLEAR GEOHYDROLOGY, W. GERMANY, 1974-75); SCIENTIST C AND SCIENTIST EI,N.G.R.I., 1977-83; SCIENTIST EII, N.G.R.I., SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN GROUNDWATER.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : CZECHOSLOVAKIA, W.GERMANY, AUSTRIA, INDONESIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 31, TECH. REPORTS - 12, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 24.

1324

DR HARISH CHANDRA TEWARI; (B. JANUARY 8, 1943),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. PHYSICS - AGRA '64; PH.D. APPLIED GEOPHYSICS - I.S.M. '89.

SPECIALIZATIONS : ELECTRONICS; GEOPHYSICS; EXPLORATION SEISMOLOGY.

EXPERIENCE : TECHNICAL ASSISTANT GR. I, O.N.G.C., 1965-73; SCIENTIST B , SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1973-88; SCIENTIST EII, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : PLANNING FOR DEEP SEISMIC SOUNDINGS; STUDIES FOR BASEMENT CONFIGURATION OF THE INTRACRATONIC SEDIMENTARY BASINS; INTERPRETATION OF SEISMIC DATA AND ITS CORRELATION WITH GRAVITY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.S.R., GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 7, BOOKS(EDITED) - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 6, OPERATION - 3, MAINTENANCE - 2, SURVEY OF NATURAL RESOURCES - 11.

1325

DR M THANGARAJAN; (B. MAY 15, 1942),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - MADRAS '62; M.SC. PHYSICS - MADRAS '68; PH.D. GEOPHYSICS - I.S.M. DHANBAD '83.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; ELECTRICAL TRANSDUCER TECHNOLOGY; GEOPHYSICAL INSTRUMENTATION; GROUNDWATER FLOW AND QUALITY MODELLING & INTERPOLATION OF GEOHYDROLOGICAL DATA.

EXPERIENCE : S.L.A., C.E.C.R.I., 1963-65; J.T.A., N.A.L., 1965-70; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I.,1970-90; (ALSO TRAINING IN R-C ANALOG MODELLING INSTRUMENTATION SYSTEM, 1974-75); SCIENTIST EII, N.G.R.I. SINCE JANUARY 1990.

PRESENT ACTIVITIES : R & D ON AQUIFER MODELLING FOR GROUNDWATER MANAGEMENT.

LANGUAGES : TAMIL, ENGLISH, GERMAN.

VISITED : W. GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, TECH DEV. - 10, R & D MGMT., MAINTENANCE - 9, PRODN. - 2.

1326

SHRI B K VERMA; (B. FEBRUARY 3, 1940),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - LUCKNOW '57; M.SC. MATHEMATICAL STATISTICS - LUCKNOW '59; PH.D. MATHEMATICS - J.N.T.U. HYDERABAD '83.

SPECIALIZATIONS : COMPUTER SCIENCE; MAGNETIC DATA PROCESSING.

EXPERIENCE : STATISTICAL ASSISTANT, ECONOMICS AND STATISTICAL DEPARTMENT, LUCKNOW, 1959-63; PROFESSIONAL ASSISTANT, INDIA METEOROLOGICAL DEPARTMENT, NEW DELHI, 1963-67; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.G.R.I., 1967-88; (ALSO ADVANCE TRAINING IN COMPUTER SCIENCE AND GEOPHYSICS, U.K. 1975 AND ADVANCE TRAINING IN AEROMAGNETIC DATA PROCESSING, CANADA, 1985). SCIENTIST EII, N.G.R.I. SINCE APRIL 1988.

PRESENT ACTIVITIES : COMPUTER SYSTEMS MANAGEMENT; SOFTWARE DEVELOPMENT FOR R & D.

LANGUAGES : HINDI, ENGLISH, BENGALI.

VISITED : U.K., CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 23, COMPUTER SOFTWARE DEV. - 23.

1327

DR SAURABH KUMAR VERMA; (B. OCTOBER 5, 1946),

SCIENTIST EII, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) - B.H.U. '65; M.SC. GEOPHYSICS - B.H.U. '67; PH.D. GEOPHYSICS - B.H.U. '73.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; ELECTROMAGNETIC INTERPRETATION; COMPUTER MODELLING; ANTARCTIC GEOPHYSICS.

EXPERIENCE : S.S.A., N.G.R.I., 1969-74; LECTURER, B.H.U., 1974-75; POST-DOCTORAL FELLOW, MACQUARIE UNIVERSITY, AUSTRALIA, 1975-77; SCIENTIST C AND SCIENTIST EI, N.G.R.I. 1977-88; (ALSO VISTING SENIOR RESEARCH SCIENTIST, C.S.I.R.O., DIVISION OF MINERAL PHYSICS, AUSTRALIA, 1983-84); SCIENTIST EII, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN MINERAL EXPLORATION; GEOSCIENTIFIC STUDIES IN ANTARCTICA.

LANGUAGES : HINDI, ENGLISH.

VISITED : AUSTRALIA, W.GERMANY, HOLLAND, U.S.S.R, SCOTLAND, CANADA, U.S.A., ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 65, MONOGRAPH - 1, BOOK - 1, TECH. REPORT - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. -11, CONSULTANCY - 3, R & D MGMT. - 9, TEACHING - 1, COMPUTER PROCESSING - 7.

1328

DR V BALARAM; (B. JUNE 1, 1951),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC. ANALYTICAL CHEMISTRY - ANDHRA '74; PH.D. ANALYTICAL CHEMISTRY - ANDHRA '79.

SPECIALIZATIONS : GEOCHEMISTRY; ANALYTICAL CHEMISTRY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1979-89; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : GEOANALYTICAL RESEARCH AND ANALYSIS OF ROCKS, MINERALS AND OTHER GEOLOGICAL MATERIALS USING AAS AND ICP MS TECHNIQUES.

LANGUAGES : HINDI, TELUGU, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 6, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 9.

1329

DR T R K CHETTY; (B. APRIL 3, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - SRI VENKTESWARA '69; M.SC. GEOLOGY - SRI VENKTESWARA '72; PH.D. STRUCTURAL GEOLOGY - SRI VENKATESWARA '83.

SPECIALIZATIONS : STRUCTURAL GEOLOGY; MINERAL EXPLORATION; REMOTE SENSING.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1974-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 7.

1330

SHRI M V R CHOWDARY; (B. JANUARY 9, 1944),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '66.

SPECIALIZATIONS : MINERAL EXPLORATION; MINERAL AND GROUNDWATER RESOURCE SURVEYS; COMPUTER PROGRAMMING.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1966-88; (ALSO TRAINING IN I.P. TECHNIQUES, W. GERMANY, 1977-79); SCIENTIST EI, N.G.R.I. SINCE MARCH, 1988.

PRESENT ACTIVITIES : R & D IN EXPLORATION GEOPHYSICS.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, IRELAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 10, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 22, TEACHING - 9, SURVEY OF NATURAL RESOURCES - 4.

1331

SHRI MADAN MOHAN DIXIT; (B. JANUARY 10, 1954),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - LUCKNOW '72; M.SC. GEOPHYSICS - B.H.U. '74.

SPECIALIZATIONS : DEEP SEISMIC SOUNDING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1976-89; (ALSO HIGHER RESEARCH UNDER DAAD PROGRAMME, W.GERMANY, 1983-85 AND TRAINING IN GEOMASTER AT CGG, MASSY, FRANCE 1989); SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RESEARCH; PROCESSING AND INTERPRETATION OF THE DATA RELATING TO DEEP SEISMIC SOUNDING.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : FRANCE, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECHNICAL REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14.

1332

DR P K GOVIL; (B. JANUARY 26, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. CHEMISTRY - JIWAJI '69; PH.D. CHEMISTRY - B.I.T.S. '73.

SPECIALIZATIONS : ANALYTICAL GEOCHEMISTRY.

EXPERIENCE : J.R.F., B.I.T.S., PILANI, 1969-74; S.R.F., N.M.L., JAMSHED PUR, 1974; S.T.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1974-88; (ALSO TRAINING IN ANALYTICAL GEOCHEMISTRY, W. GERMANY, 1976-78 AND ADVANCE TRAINING IN NETHERLANDS, 1980); SCIENTIST EI, N.G.R.I. SINCE APRIL, 1989.

PRESENT ACTIVITIES : RESEARCH IN ANALYTICAL GEOCHEMISTRY.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, THE NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 17.

1333

DR T HARINARAYANA; (B. JUNE 10, 1954),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '74; M.SC. (TECH) GEOPHYSICS - ANDHRA '77; PH.D. - I.S.M. DHANBAD '84; PH.D. - EDINBURGH, U.K., '87.

SPECIALIZATIONS : ELECTRICAL RESISTIVITY STUDIES (ERS); MAGNETO TELLURICS; AUDIO MAGNETO TELLURICS; GEOMAGNETISM.

EXPERIENCE : J.R.F., I.S.M., DHANBAD, 1977-78; J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I. 1978-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN TELLURICS, MAGNETO TELLURICS AND AUDIO MAGNETO TELLURICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3. RES. PAPERS - 15 PRESENTED IN SEMINAR/SYMPOSIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : DATA ACQUISITION, DATA PROCESSING & INTERPRETATION, MODELLING IN ERS, T, MT & AMT TECHNIQUES, REPORT WRITING, PROJECT PLANNING - 11.

1334

DR T S MADOOM HUSSAIN; (B. FEBRUARY 6, 1944),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '63; M.SC. GEOLOGY - OSMANIA '73; PH.D. - OSMANIA '80.

SPECIALIZATIONS : GEOCHEMISTRY.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, AND SCIENTIST C, N.G.R.I., 1964-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH ON CRUSTAL EVOLUTION OF PENINSULAR INDIA; GEOCHEMICAL CRUSTAL EVOLUTION OF SCHIRMACHOR OASIS, PETERMANN I RANGE, AND GRUBER MASSIF (WOLTHAT MOUNTAINS), EAST ANTARCTICA.

LANGUAGES : HINDI, URDU, TELUGU, ENGLISH.

VISITED : U.S.A., ANTRACTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 47.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, GEOLOGICAL MAPPING - 3.

1335

SHRI SHIKHAR CH JAIN; (B. JUNE 9, 1943),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOSCIENCES - I.I.T., KHARAGPUR '63; M.SC. GEOPHYSICS - I.I.T., KHARAGPUR '65; D.I.I.T. GEOPHYSICS - I.I.T., KHARAGPUR '66.

SPECIALIZATIONS : MINERAL EXPLORATION; GROUNDWATER EXPLORATION; COMPUTER PROCESSING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1966-84; (ALSO TRAINING IN INDUCED POLARIZATION METHOD, W. GERMANY, 1976-77); SCIENTIST EI, N.G.R.I. SINCE DECEMBER, 1984.

PRESENT ACTIVITIES : R & D IN GROUNDWATER EXPLORATION.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, YUGOSLAVIYA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 9. REVIEW BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. -25, DESIGN - 1, CONSULTANCY -10, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 15, COMPUTER PROCESSING - 10.

1336

SHRI PRAKASH KHARE; (B. NOVEMBER 1, 1953),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '76.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST B AND SCIENTIST C. N.G.R.I. SINCE 1977-89, SCIENTIST EI. N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF SEISMIC EQUIPMENTS.

LANGUAGES : HINDI, MARATHI. ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 6, MAINTENANCE - 6.

1337

MISS M KOUSALYA; (B. MAY 3, 1940),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : L.E.C.E. ELECTRONICS AND TELECOMMUNICATION - ANDHRA PRADESH '67; A.M.I.E.T.E. - INSTITUTE OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (INDIA) '69; B.SC. MATHS - MADURAI '82.

SPECIALIZATIONS : DIGITAL DESIGN; GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : J.S.A. GR. II, J.S.A. GR. I AND S.S.A., D.L.R.L., 1967-77; SCIENTIST B AND SCIENTIST C, N.G.R.I. 1977-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN GEOPHYSICAL INSTRUMENTATION.

LANGUAGES : TAMIL, TELUGU, HINDI, ENGLISH, FRENCH.

VISITED : CANADA, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, REVIEW PAPERS - 1, TECH REPORT - 4.

AWARDS & DISTINCTIONS : CASH AWARD FOR DEVELOPMENT OF SECONDARY SERVEILLANCE RADAR EQUIPMENT, MINISTRY OF DEFENCE; FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 15, TECH. DEV. - 18, TESTING - 9, QUALITY CONTROL - 6, DOCUMENTATION - 2.

1338

SHRI N S KRISHNAMURTHY; (B. JUNE 1, 1948),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '69; M.SC. (TECH.) GEOPHYSICS - OSMANIA '73.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS.

EXPERIENCE : JUNIOR GEOPHYSICIST , CENTRE FOR EXPLORATION GEOPHYSICS, 1973-74; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1974-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : GEOPHYSICAL INVESTIGATIONS FOR GROUNDWATER.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NATURAL RESOURCES - 17.

1339

DR BALESHWAR KUMAR; (B. MAY 5, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '65; B.E. INSTRUMENTATION - POONA '69; PH.D. - I.I.SC., BANGALORE '80.

SPECIALIZATIONS : STABLE ISOTOPE GEOCHEMISTRY; MASS SPECTROMETRY.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1969-88; (ALSO HIGHER TRAINING IN STABLE ISOTOPE GEOCHEMISTRY, W. GERMANY, 1974-76); SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN STABLE ISOTOPE & ORGANIC GEOCHEMISTRY AND ITS APPLICATION TO EARTH SCIENCES; OPERATION AND MAINTENANCE OF STABLE ISOTOPE MASS SPECTROMETERS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, U.K., FRANCE, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 3, PROCESSES DEVELOPED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10, OPERATION - 10, TESTING - 10, MAINTENANCE - 10, SURVEY OF NATURAL RESOURCES - 5, TECHNO-ECONOMIC SURVEYS - 5, PLANNING - 8, TECHNOLOGY TRANSFER - 5.

1340

DR BEZWADA LAKSHMINARAYANA; (B. JULY 15, 1941),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '65; M.SC. GEOLOGY - VIKRAM '67; PH.D. GEOLOGY - VIKRAM '72.

SPECIALIZATIONS : GEOLOGICAL INVESTIGATION OF ARCHEAN GRANITE, GREENSTONE AND GRANULITE TERRAINS.

EXPERIENCE : J.R.F., P.D.F. AND SCIENTIST B, VIKRAM UNIVERSITY, 1968-83; (ALSO S.S.A., N.G.R.I., HYDERABAD, 1976-78); SCIENTIST C, N.G.R.I., 1983-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH ON THE ROLE OF HIGH GRADE TERRAINS IN THE EVOLUTION CONTINENTAL LITHOSPHERE; ALSO GUIDE FOR PH.D. STUDENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, TEACHING - 2.

1341

SHRI INDRA MOHAN; (B. DECEMBER 31, 1941),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) APPLIED GEOPHYSICS - RANCHI '64; M.SC. APPLIED GEOPHYSICS - RANCHI '65; POST-GRADUATE DIPLOMA IN SEISMOLOGY - INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING, JAPAN '71.

SPECIALIZATIONS : SEISMOLOGY; EARTHQUAKE ENGINEERING.

EXPERIENCE : TECHNICAL ASSISTANT GR. I, O.N.G.C., DEHRA DUN, 1965-66; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1966-84; (ALSO DIRECTOR AND SCIENTIST-IN-CHARGE, EARTHQUAKE ROCK EVALUATION CENTRE, SHILLONG, 1983-85); SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1984.

PRESENT ACTIVITIES : RESEARCH IN OBSERVATIONAL SEISMOLOGY; SEISMIC HAZARD EVALUATION AND EARTHQUAKE PREDICTION RESEARCH IN NORTH EASTERN INDIA.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 17, DESIGN - 4, CONSULTANCY - 1, OPERATION - 14, MAINTENANCE - 17, TEACHING - 2, ADMN. - 2, EDITING - 1.

1342

DR D SURYANARAYANA MURTHY; (B. APRIL 14, 1939),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '61; M.SC. (TECH.) APPLIED GEOLOGY - ANDHRA '64; PH.D. APPLIED GEOLOGY - ANDHRA '71.

SPECIALIZATIONS : MINERALOGY; PETROLOGY; STRUCTURAL GEOLOGY.

EXPERIENCE : J.R.F., S.R.F., 1964-72; POOL OFFICER, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1972-87; SCIENTIST EI, N.G.R.I. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D IN MINERAL EXPLORATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 28, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 27, APP. RES. - 10, SURVEY OF NATURAL RESOURCES.

1343

SHRI S NARAYANA; (B. JUNE 5, 1948),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - OSMANIA '72; M.TECH. ADVANCED ELECTRONICS - J.N.T.U. '79.

SPECIALIZATIONS : ELECTRONICS; INSTRUMENTATION

EXPERIENCE : S.S.A., DEFENCE ELECTRONICS RESEARCH LABORATORY, HYDERABAD, 1972-76; SCIENTIST B AND SCIENTIST C, N.G.R.I., 1976-87; (ALSO TRAINING IN GEOPHYSICAL INSTRUMENTATION, U.S.A., 1979); SCIENTIST EI, N.G.R.I. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : DESIGN AND DAVELOPMENT OF GEOPHYSICAL INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 18, APPLIED RES. - 18, TECHNICAL DEV. - 18.

1344

SHRI R NATARAJAN; (B. DECEMBER 4, 1940),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC., PHYSICS - MADRAS '60; A.M.I.I.M. METALLURGY - I.I.M. CALCUTTA '75.

SPECIALIZATIONS : GEOCHEMISTRY; PHYSICAL METALLURGY; ELECTRON PROBE MICROANALYSIS.

EXPERIENCE : SCIENTIST C, N.G.R.I. 1983-88; (ALSO ADVANCE TRAINING IN PHYSICAL METALLURGY, FRANCE, 1966-67; AND TO ACQUIANT WITH COMPLEX MICRO E.P.M.A., FRANCE AND U.S.A., 1983); SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN GEOCHEMISTRY.

LANGUAGES : TAMIL, FRENCH, TELUGU, HINDI, ENGLISH.

VISITED : FRANCE, IRAQ, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 29.

1345

DR OM PRAKASH PANDEY; (B. MAY 12, 1950),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : PH.D. GEOPHYSICS - VICTORIA UNIVERSITY OF WELLINGTON, NEWZEALAND '81.

SPECIALIZATIONS : HEAT FLOW STUDIES; GEODYNAMICS.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1971-89; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

VISITED : NEW ZEALAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19.

1346

SHRI S JOSIAH PETER; (B. FEBRUARY 17, 1953).

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '76; P.G CERTIFICATE IN COMPUTER PROGRAMMING - J.N.T.U '82; CERTIFICATE IN COBOL PROGRAMMING - C.S.I. '82. CERTIFICATE IN 'C' LANGUAGE & ASSEMBLY LANGUAGE PROGRAMMING - '90.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION; COMPUTER PROGRAMMING.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1977-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN GEOPHYSICAL INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 6, ARTICLES - 1.

AWARDS & DISTINCTIONS : MEMBER, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, OPERATION - 10, MAINTENANCE - 10, COMPUTER PROGRAMMING - 10, GEOPHYSICAL SURVEYS - 10.

1347

SHRI B RAJENDRA PRASAD; (B. JULY 10, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC.(TECH.) APPLIED GEOPHYSICS - OSMANIA '72.

SPECIALIZATIONS : SEISMIC DATA ACQUISITION; GROUNDWATER EXPLORATION; SEISMIC SYSTEMS.

EXPERIENCE : GEOPHYSICIST A.P. GOVT., 1974; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1974-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DEEP SEISMIC SOUNDING DATA AQUISITION, PROCESSING AND INTERPRETATION.

LANGUAGES : TELUGU, HINDI, URDU, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, OPERATION - 6, MAINTENANCE - 6, SURVEY OF NATURAL RESOURCES - 8.

1348

DR S N PRASAD; (B. JANUARY 4, 1948),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. APPLIED GEOPHYSICS - I.S.M., DHANBAD '69; PH.D. GEOPHYSICS - I.S.M., DHANBAD '74.

SPECIALIZATIONS : GEOELECTROMAGNETICS; PALEOMAGNETISM; MAGNETIC SURVEYS.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1973-88; (ALSO RESEARCH IN PALEOMAGNETISM, DENMARK, 1975-77); SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988; (RESEARCH IN MODELLING GEOMEGNETIC DEEP SOUNDING DATA OF THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA, MARCH-AUGUST 1985).

PRESENT ACTIVITIES : RESEARCH AND SOFTWARE DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : DENMARK, AUSTRALIA, NORWAY, FRANCE, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 2, REVIEW PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18.

1349

DR SHIVENDRA NATH RAI; (B. JUNE 30, 1952),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '73; M.SC. GEOPHYSICS - B.H.U. '75; PH.D. GEOPHYSICS '86.

SPECIALIZATIONS : MATHEMATICAL MODELLING OF GEOPHYSICAL PROBLEMS RELATING TO SUBSURFACE FLUID FLOW.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1977-89; SCIENTIST EI N.G.R.I. SINCE FEBRUARY, 1989; (ALSO RESEARCH IN MATHEMATICAL MODELLING OF GROUNDWATER FLOW, GERMANY, 1982-84).

PRESENT ACTIVITIES : R & D IN GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 13, APP. RES. - 13.

1350

SHRI SHYAM SUNDER RAI; (B. MARCH 16, 1954),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.TECH. APPLIED GEOPHYSICS - ROORKEE '72; PH.D. APPLIED GEOPHYSICS - I.S.M., DHANBAD '88.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; SEISMIC TOMOGRAPHY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1978-86; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN SEISMOLOGY.

AWARDS & DISTINCTIONS : CSIR YOUNG SCIENTIST AWARD, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

1351

SHRI S V SRI RAMARAO; (B. SEPTEMBER 27, 1953),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1352

SHRI H V RAMBABU; (B. APRIL 24, 1951),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC.(TECH.) GEOPHYSICS - OSMANIA '75; PH.D. GEOPHYSICS - OSMANIA '87.

SPECIALIZATIONS : AEROMAGNETICS; GRAVITY AND MAGNETIC INTERPRETATION; EXPLORATION GEOPHYSICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1977-89; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : GEOPHYSICAL EXPLORATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, SURVEY OF NATURAL RESOURCES - 5.

1353

DR A V RAMANA RAO; (B. FEBRUARY 12, 1938),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '60; M.SC. GEOLOGY - OSMANIA '62; PH.D. GEOLOGY - OSMANIA '73; M.B.A. - OSMANIA '81; DIPLOMA IN FRENCH '82.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; PERT AND CPM; ECONOMIC FEASIBILITY STUDIES; ADVANCED MARKETING.

EXPERIENCE : J.R.F., J.S.A., S.S.A. AND SCIENTIST A, N.G.R.I., 1962-79; (ALSO RESEARCH IN EARTH SCIENCES AND TRAINING IN GEOLOGICAL AND GEOPHYSICAL EXPLORATION TECHNIQUES, BULGARIA, 1973); SCIENTIST B AND SCIENTIST C; N.G.R.I. 1979-89; SCIENTIST EI, N.G.R.I. SINCE JANUAURY,1989.

PRESENT ACTIVITIES : RESEARCH IN EARTH SCIENCES.

LANGUAGES : TELUGU, HINDI, URDU, ENGLISH, BULGARIAN, FRENCH.

VISITED : BULGARIA, ANTRACTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 2, ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, IND. MGMT. - 7, SURVEY OF NATURAL RESOURCES - 12, PLANNING - 7, TECHNOLOGY TRANSFER - 7, SALES MARKETING - 5, ADMN. - 7, EDITING - 1.

1354

DR CH RAMA RAO; (B. NOVEMBER 5, 1953),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC. (TECH) GEOPHYSICS - ANDHRA '75; PH.D. GEOPHYSICS - ANDHRA '80.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; MAGNETIC DATA INTERPRETATION; AIRBORNE DATA PROCESSING AND INTERPRETATION.

EXPERIENCE : J.R.F., ANDHRA UNIVERSITY, 1976-80; S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1980-89; SCIENTIST EI, N.G.R.I. SINCE FEBURARY, 1989

PRESENT ACTIVITIES : AIRBORNE SURVEYS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, TEACHING - 3.

1355

SHRI D S BHASKARA RAO; (B. JUNE 5, 1939),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. APPLIED STATISTICS - OSMANIA '80.

SPECIALIZATIONS : AIRBORNE SURVEYS; DATA PROCESSING; MODELLING AND SOFTWARE DEVELOPMENT.

EXPERIENCE : SR. OBSERVER, ENGINEERING RES. LAB, 1960-62; S.L.A., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1964-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : AIRBORNE SURVEYS AND DATA PROCESSING AND SOFTWARE DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 1, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 6, SURVEY OF NATURAL RESOURCES - 3, COMPUTER PROCESSING - 5.

1356

DR D V SUBBA RAO; (B. JULY 1, 1940),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '62; M.SC. (TECH.) GEOPHYSICS - ANDHRA '66; PH.D. GEOPHYSICS - ANDHRA '79.

SPECIALIZATIONS : GRAVITY AND MAGNETIC METHODS OF GEOPHYICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1967-88; (ALSO TRAINING IN GRAVITY AND MAGNETIC DATA INTERPRETATION, POLAND 1981); SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ANALYSIS AND INTERPRETATION OF GRAVITY AND MAGNETIC DATA.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : POLAND, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECHNICAL REPORTS - 2.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20. APP. RES. - 20.

1357

DR G V S POORNACHANDRA RAO; (B. JANUARY 15, 1947),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC. (TECH.) GEOPHYSICS - ANDHRA '71; PH.D. GEOPHYSICS - ANDHRA '78.

SPECIALIZATIONS : PALEOMAGNETISM; ROCK MAGNETISM.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1972-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : INVESTIGATION OF PALAEOMAGNETIC AND ROCKMAGNETIC PROPERTIES OF SEVERAL ROCK FORMATIONS.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 41, TECH REPORT - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP. RES. - 19.

1358

DR G VENKATESHWAR RAO; (B. JANUARY 10, 1938),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '62; PH.D. GEOPHYSICS - OSMANIA '80.

SPECIALIZATIONS : TERRESTRIAL HEAT FLOW STUDIES AND EXPLORATION OF GEOTHERMAL ENERGY; RADIOACTIVE ELEMENTS IN ROCKS; ELECTRONICS; HELIUM EMANOMETRY.

EXPERIENCE : J.S.A., R.R.L. HYDERABAD, 1964-66; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1966-87; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1987.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. -10, MAINTENANCE - 2.

1359

SHRI I B P RAO; (B. FEBRUARY 27, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '66; M.SC. PHYSICS - ANDHRA '69.

SPECIALIZATIONS : ELECTRONICS; SEISMIC INSTRUMENTATION; SEISMIC DATA ACQUISITION AND DATA PROCESSING.

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C N.G.R.I., 1973-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MANAGEMENT OF D.S.S. FIELD PARTY, ACQUISION OF D.S.S. DATA USING MULTI CHANNEL ANALOG/DIGITAL RECORDING SYSTEMS. PROCESSING/ INTERPRETATION OF D.S.S. DATA.

LANGUAGES : TELUGU. HINDI. ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, OPERATION - 4, MAINTENANCE - 12, SURVEY OF NATURAL RESOURCES - 10, PROCESSING/INTERPRETATION - 5.

1360

DR J M RAO; (B. JULY 15, 1945),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - OSMANIA'68; PH.D. GEOLOGY - OSMANIA'75.

SPECIALIZATIONS : MINERALOGY AND PETROLOGY; GEOCHEMISTRY; STRUCTURAL GEOLOGY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, NGRI, 1976-89; (ALSO POSTDOCTORAL RESEARCH IN GEOLOGY, UNIVERSITY OF RHODE ISLAND, USA, 1980 - 83); SCIENTIST EI, N.G. R.I. SINCE FEBRUARY, 1989;(ALSO RESEARCH IN IGNEOUS PETROLOGY, BROOKLYN COLLEGE, USA, 1988).

PRESENT ACTIVITIES : BASIC RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 22, TEACHING - 2.

1361

DR M NAGESWARA RAO; (B. OCTOBER 20, 1943),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOLOGY - ANDHRA '61; M.TECH. APPLIED GEOLOGY - I.I.T., KHARAGPUR '64; PH.D. GEOLOGY - I.I.T., KHARAGPUR '68.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; ENGINEERING GEOLOGY; PROTEROZOIC GEOLOGY; REMOTE SENSING AND MORPHOTECTONICS.

EXPERIENCE : ASSISTANT PROFESSOR, U.P. AGRICULTURAL UNIVERSITY, PANTNAGAR, 1969-71; POOL OFFICER, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1972-87; SCIENTIST EI. N.G.R.I. SINCE MARCH, 1987.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 45.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 16, CONSULTANCY - 16, TEACHING - 2, SURVEY OF NATURAL RESOURCES - 25.

1362

DR M V M SATYANARYANA RAO; (B. JANUARY 22, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1363

DR N MADHAVA RAO; (B. FEBRUARY 4, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '64; M.SC. (TECH.) GEOPHYSICS - ANDHRA '67; PH.D. GEOPHYSICS - I.S.M. '81.

SPECIALIZATIONS : SEISMICITY AND DEEP SEISMIC SOUNDING STUDIES.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTISST C, N.G.R.I., 1971-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D AND PROCESSING OF DSS DATA.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 9, CONSULTANCY - 1, COMPUTER PROCESSING - 6.

1364

DR P RAMA RAO; (B. MARCH 3, 1943),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1365

DR R UMAMAHESHWARA RAO; (B. SEPTEMBER 17, 1939),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - S.V. UNIVERSITY '58; M.SC. GEOPHYSICS - ANDHRA '61; PH.D GEOPHYSICS - ANDHRA '73.

SPECIALIZATIONS : GEOTHERMICS; RADIOMETRY; HELIUM EMANOMETRY.

EXPERIENCE : LECTURER, B.T. COLLEGE, MADANAPALLI, 1961-63; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1963-81; (ALSO POST-DOCTORAL FELLOW, CANADA, 1972-73); SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, KANNADA, SANSKRIT, ENGLISH.

VISITED : CANADA, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, TEACHING - 2.

1366

SHRI T G RAO; (B. NOVEMBER 20, 1943),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '62; M.SC. (TECH.) GEOPHYSICS - ANDHRA '65.

SPECIALIZATIONS : GROUNDWATER RESOURCES; EXPLORATION GEOPHYSICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1966-87; (ALSO ADVANCED TRAINING IN RESISTIVITY, SEISMIC AND WELL LOGGING METHODS, W. GERMANY, 1974-75); SCIENTIST EI, N.G.R.I. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D IN GROUNDWATER RESOURCES.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 24.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NATURAL RESOURCES - 24.

1367

SHRI V V S GURUNADHA RAO; (B. AUGUST 13, 1951),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '71; M.SC. PHYSICS - ANDHRA '73.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; AQUIFER MODELLING; HYDROLOGY.

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1974-90 SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN AQUIFER MODELLING FOR GROUNDWATER MANAGEMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECHNICAL REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 8, TECH. DEV. - 14, CONSTRUCTION - 9, TESTING - 11, MAINTENANCE 10, PRODUCTION - 1, APPLIED RESEARCH - 16.

1368

DR Y J BHASKAR RAO; (B. MARCH 11, 1952),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - OSMANIA '75; PH.D. GEOLOGY - OSMANIA '82.

SPECIALIZATIONS : PRECAMBRIAN GEOLOGY; ISOTOPE GEOLOGY.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C , N.G.R.I., 1976-89; (ALSO POST DOCTORAL FELLOW, U.S.A., 1980-82); SCIENTIST EI, N.G.R.I.SINCE FEBRUARY 1989

PRESENT ACTIVITIES : RESEARCH IN GEOLOGY, GEOCHEMISTRY AND ISOTOPE GEOLOGY.

LANGUAGES : HINDI, TELUGU, ENGLISH, KANNADA.

VISITED : U.S.A., U.S.S.R., AUSTRALIA.

PUBLICATIONS & PATENTS : TECHNICAL REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, OPERATION - 12, SURVEY OF NATURAL RESOURCES - 3.

1369

SHRI Y PURNACHANDRA RAO; (B. AUGUST 10, 1945),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. (HONS.) ELECTRONICS AND COMMUNICATION - JABALPUR '70.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : S.S.A., D.L.R.L , SCIENTIST B AND SCIENTIST C , N.G.R.I., 1979-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D OF MICROPROCESSOR BASED GEOPHYSICAL INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 19, TECH. DEVELOPMENT - 19.

1370

DR B S RATHOR; (B. FEBRUARY 14, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS.) - B.H.U. '64; M.SC. GEOPHYSICS - B.H.U. '66; PH.D. GEOPHYSICS - B.H.U. '74.

SPECIALIZATIONS : ELECTROMAGNETISM; MINERAL EXPLORATION; GROUNDWATER EXPLORATION; SEISMIC DATA PROCESSING.

EXPERIENCE : LECTURER, H.S.I.I. COLLEGE, BUDAUN, 1966-67; RESEARCH SCHOLAR AND LECTURER, B.H.U., VARANASI, 1967-70; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1970-89; (ALSO ADVANCED TRAINING IN EXPLORATION GEOPHYSICS, W. GERMANY, 1975-76); SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : R & D; SURVEY OF NATURAL RESOURCES; MINERAL & GROUNDWATER RESOURCES STUDIES ON WAVE EQUATION MIGRATION IN SEISMIC DATA INTERPRETATION

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 22, TEACHING - 2, SURVEY OF NATURAL RESOURCES - 13, COMPUTER PROCESSING - 9.

1371

SHRI B SHANKER REDDY; (B. SEPTEMBER 10, 1937),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : L.E.C.E. ELECTRONICS AND COMMUNICATION - ANDHRA PRADESH '60; GRAD.I.E.T.E.- INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (INDIA) '68.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : SCIENTIFIC ASSISTANT, B.A.R.C., BOMBAY, 1961-64; DEVELOPMENT AND PRODUCTION ENGINEER, INSTRUMENTS TECHNIQUES LABORATORY, HYDERABAD, 1964-66; J.T.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I. 1966-87; SCIENTIST EI, N.G.R.I. SINCE JUNE. 1987.

PRESENT ACTIVITIES : R & D IN GEOPHYSICAL INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 15, DESIGN - 15, TECHNICAL DEV. - 16, CONSTRUCTION - 3, TESTING - 8, QUALITY CONTROL - 5, MAINTENANCE - 15, PRODUCTION - 3, INDUSTRIAL MANAGEMENT - 3, SURVEY OF NATURAL RESOURCES - 15.

1372

SHRI G RANGA REDDY; (B. APRIL 23, 1953),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '72; D.M.I.T. IN ELECTRONICS - MADRAS INSTITUTE OF TECHNOLOGY '75; M.S. COMPUTER ENGINEERING - UNIVERSITY OF SOUTH WESTERN, LOUISIANA (U.S.A.) '85.

SPECIALIZATIONS : COMPUTER NETWORKS; PARALLEL PROCESSING; COMPUTER ARCHITECTURE & VLSI; INFORMATION SYSTEMS.

EXPERIENCE : J.E., CENTRAL ELETRONICS LTD, NEW DELHI, 1976-78; T.O., ELECTRONICS CORPORATION OF INDIA LTD, HYDERABAD, 1978-83; G.T.A., UNIVERSITY OF SOUTH WESTERN, LOUSIANA, (USA), 1983-85; FACULTY MEMBER (FI), ASCI, HYDERABAD, 1986-88; SCIENTIST EI, N.G.R.I. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : COMPUTER CENTRE MANAGEMENT & SYSTEM SOFTWARE DEVELOPMENT.

LANGUAGES : TELUGU, ENGLISH.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 7, MAINTENANCE - 2, MANAGEMENT - 2, TEACHING - 2, COMPUTER PROCESSING - 5.

1373

SHRI K N SRINATHA REDDY; (B. AUGUST 2, 1951),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - MYSORE '73; POST DIPLOMA IN COMPUTER ENGINEERING - KARNATAKA '75.

SPECIALIZATIONS : ANALOG AND DIGITAL CIRCUITS; AIRBORNE ELECTROMAGNETICS; SHALLOW SEISMICS.

EXPERIENCE : J.R.F., N.A.L., 1974-75; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1976-89; SCIENTIST EI, N.G.R.I. SINCE JUNE, 1989.

PRESENT ACTIVITIES : DEVELOPMENT OF GEOPHYSICAL INSTRUMENTS; AEROMAGNETIC SURVEYS; SHALLOW SEISMIC SURVEYS; PARTICIPATION IN ANTARCTICA EXPEDITIONS (IVTH, VTH AND VIITH).

LANGUAGES : TELUGU, KANNADA, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3, RESEARCH PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. - 8, OPERATION - 1, TESTING - 1, MAINTENANCE - 12.

1374

DR DIPANKAR SARKAR; (B. JUNE 15, 1950),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) APPLIED GEOPHYSICS - I.S.M. '70; M.SC. APPLIED GEOPHYSICS - I.S.M. '71; PH.D. GEOPHYSICS - I.S.M. '85.

SPECIALIZATIONS : EARTHQUAKE AND EXPLOSION SEISMOLOGY; GEOPHYSICAL EXPLORATION.

EXPERIENCE : SALESMAN, HINDUSTAN LEVERS, 1971-72; J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1972-89; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RESEARCH IN EXPLOSION/SEISMOLOGY.

LANGUAGES : BANGALI, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, BRITAIN.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECHNICAL REPORTS - 5, REVIEW PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 12, SALES MARKETING - 1, COMPUTER PROCESSING - 2.

1375

SHRI B S P SARMA; (B. DECEMBER 23, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '67.

SPECIALIZATIONS : AEROMAGNETICS; KIMBERLITE EXPLORATION BY MAGNETICS.

EXPERIENCE : TEACHER, HYDERABAD PUBLIC SCHOOL, 1967; J.S.A., S.S.A.,SCIENTIST B, AND SCIENTIST C, N.G.R.I., 1967-88; (ALSO TRAINING IN AIRBORNE GEOPHYSICS, W. GERMANY, 1978-79); SCIENTIST EI, N.G.R.I. SINCE APRIL , 1988.

PRESENT ACTIVITIES : R & D IN EXPLORATION GEOPHYSICS; SURVEY OF NATURAL RESOURCES.

LANGUAGES : ENGLISH, TELUGU, HINDI, GERMAN.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, SURVEY OF NATURAL RESOURCES - 24, TEACHING - 1.

1376

SHRI G S SARMA; (B. OCTOBER 1, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. MATHEMATICS - OSMANIA '81.

SPECIALIZATIONS : NUMERICAL ANALYSIS; COMPUTER SCIENCE; SOFTWARE DEVELOPMENT; PARALLEL PROCESSING AND ARTIFICIAL INTELLIGENCE TECHNIQUES.

EXPERIENCE : RESEARCH ASSISTANT, C.W.P.C., 1970-73; S.L.A., S.T.A., TECHNICAL OFFICER A, SCIENTIST B AND SCIENTISTS C, 1973-89; SCIENTST EI, N.G.R.I. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : EXPLORATION SEISMICS; DEVELOPMENT & PARALLEL PROCESSING ALGORITHM FOR SEISMIC MODELLING; DEVELOPMENT OF KNOWLEDGE BASED SYSTEMS (KBS) FOR GEOSCIENCE APPLICATIONS.

LANGUAGES : TELUGU, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 20, COMPUTER PROCESSING - 17.

1377

SHRI V N SARMA; (B. OCTOBER 16, 1944),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '65; B.E. ELECTRONICS AND COMMUNICATION - ANDHRA '68.

SPECIALIZATIONS : ELECTROMEDICAL INSTRUMENTATION; ELECTROCHEMICAL AND ANALYTICAL INSTRUMENTATION; MEASURING INSTRUMENTATION.

EXPERIENCE : J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1969-83; SCIENTIST C, C.S.I.O., 1983-88; SCIENTIST EI, N.G.R.I SINCE APRIL, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 1, TESTING - 3, MAINTENANCE - 17, ADMINISTRATION - 2.

1378

SHRI R SIVA RAMA SASTRY; (B. APRIL 24, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - S.V. UNIVERSITY '72.

SPECIALIZATIONS : ANALYTICAL INSTRUMENTATION; ELECTRONIC CIRCUITS; INDUSTRIAL EQUIPMENT.

EXPERIENCE : INSTRUMENT TECHNICIAN, S.V. UNIVERSITY COLLEGE, TIRUPATI, 1973-78; SCIENTIST A AND SCIENTIST B, C.S.I.O., 1978-86; SCIENTIST C, C.S.I.O., 1987-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF ELECTRONIC INSTRUMENTS; R & D IN RESISTIVITY AND INDUCED POLARISATION METHODS OF PROSPECTING.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 7, CONSULTANCY - 2, TESTING - 7, MAINTENANCE - 7, TEACHING - 5, ADMN. - 2, SERVICING - 7.

1379

DR T S SASTRY; (B. DECEMBER 6, 1939),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '58; M.SC. APPLIED GEOPHYSICS - ANDHRA '61. PH.D. GEOPHYSICS - ANDHRA '89.

SPECIALIZATIONS : GEOMAGNETISM; GEOPHYSICAL EXPLORATION.

EXPERIENCE : LECTURER, SCIENCE COLLEGE, ROURKELA, 1962-63; LECTURER, NEW SCIENCE COLLEGE, HYDERABAD, 1963; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1963-86; SCIENTIST EI, N.G.R.I. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : MAGNETOTELLURIC INVESTIGATIONS; RESEARCH IN GEOMAGNETIC PULSATION PHENOMENA.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 12, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 5, TEACHING - 2, SURVEY OF NATURAL RESOURCES - 3.

1380

SHRI T SESHUNARAYANA; (B. JULY 4, 1953),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '75; M.SC. (TECH.) GEOPHYSICS - OSMANIA '78.

SPECIALIZATIONS : SEISMICS; RESISTIVITY SURVEYS; COAL EXPLORATION; ENGINEERING GEOPHYSICS; SEISMIC DATA PROCESSING.

EXPERIENCE : J.R.F., I.I.P.G., HYDERABAD, 1978-79; CONTINGENT GEOPHYSICIST, S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I. 1979-90 (ALSO TRAINING IN GEOMASTER SEISMIC DATA PROCESSING SOFTWARE IN FRANCE, SEPT-OCTOBER 89); SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : SEISMICS; ENGINEERING GEOPHYSICS; COMPUTER PROGRAMMING; SEISMIC DATA PROCESSING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : U.S.S.R., FRANCE.

PUBLICATIONS & PATENTS : TECHNICAL REPORTS - 21, PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NATURAL RESOURES - 11, COMPUTER PROGRAMMING - 6, ENGINEERING GEOPHYSICAL SURVEY - 11, REFLECTION SEISMICS - 8, SHEAWAVE SEISMIC - 5, SEISMIC DATA PROCESSING - 5.

1381

SHRI P N SHARMA; (B. OCTOBER 1, 1939),

TECHNICAL OFFICER (EI), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD

QUALIFICATIONS : B.A. - AGRA '65; P.G. DIPLOMA IN CARTOGRAPHY - OSMANIA '71; DIPLOMA IN DRAUGHTSMANSHIP-MINISTRY OF LABOUR AND EMPLOYMENT '58.

SPECIALIZATIONS : CARTOGRAPHY.

EXPERIENCE : JUNIOR DRAUGHTSMAN AND SENIOR DRAUGHTSMAN, O.N.G.C., DEHRADUN 1958 - 69; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1969-88; TECHNICAL OFFICER EI, N.G.R.I. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : PLANNING, SUPERVISION AND EXECUTION OF MAPS AND DRAWINGS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAPS AND DRAWINGS - 30.

1382

SHRI VIJAY SHANKAR SINGH; (B. JANUARY 1, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOPHYSICS - B.H.U.'72; PH.D. GEOPHYSICS - B.H.U. '87.

SPECIALIZATIONS : HYDROGEOLOGY.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1973-90; (ALSO ADVANCED TRAINING IN HYDROGEOLOGY, W. GERMANY, 1975-77 AND CERTIFICATE IN HYDROGEOLOGY, U.K., 1985-86); SCIENTIST EI, N.G.R.I., SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN HYDROGEOLOGY.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. PAPERS - 10.

1383

SHRI G D J SIVAKUMAR SINHA; (B. JULY 1, 1948),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '72.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; MINING GEOPHYSICS; COMPUTER PROCESSING AND INTERPRETATION OF AEROMAGNETIC DATA.

EXPERIENCE : TRAINEE GEOPHYSICIST,N.G.R.I.,1972-74; ENGINEER, HINDUSTAN ZINC LTD., 1974-76; S.R.F., S.S.A., SCI-

ENTIST B AND SCIENTIST C, N.G.R.I., 1976-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN EXPLORATION GEOPHYSICS AND SOLID EARTH GEOPHYSICS.

LANGUAGES : TELUGU, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 15, TECHNO-ECONOMIC SURVEYS - 17, COMPUTER PROCESSING - 15, BASIC RES. - 4.

1384

DR R SRINIVASAN; (B. JANUARY 4, 1943),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1385

DR CHALLA SUBRAHMANYAM; (B. OCTOBER 9, 1945),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '64; M.SC. (TECH.) GEOPHYSICS - ANDHRA '67; PH.D. - I.S.M. '80.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I. 1967-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, TAMIL, ENGLISH, GERMAN.

VISITED : WEST GERMANY, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23.

1386

SHRI K SUBRAHMANYAM; (B. OCTOBER 25, 1946),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - OSMANIA '67.

SPECIALIZATIONS : GEOPHYSICS; GROUNDWATER EXPLORATION.

EXPERIENCE : T.A., STATE GROUNDWATER DEPARTMENT, ANDHRA PRADESH, 1972-77; S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1977-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN GROUNDWATER EXPLORATION AND EXPLOITATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPER - 18, TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH, DESIGN, OPERATION, TESTING, SURVEY OF NATURAL RESOURCES, DOCUMENTATION. (16 YEARS).

1387

SHRI S N SWAMY; (B. JUNE 19, 1938),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '59; M.SC. GEOLOGY - OSMANIA '66; DIPLOMA IN JOURNALISM AND PUBLIC RELATIONS- BHARTIA VIDYA BHAWAN '74.

SPECIALIZATIONS : INFORMATION DISSEMINATION.

EXPERIENCE : J.L.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I. 1970-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY 1990.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION; PUBLIC RELATIONS AND LIAISON.

LANGUAGES : URDU, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : INFORMATION AND LIAISON- 15.

1388

DR R K TIWARI; (B. JANUARY 10, 1954),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '73; M.SC. GEOPHYSICS - B.H.U. '85: PH.D. GEOPHYSICS - B.H.U. '85.

SPECIALIZATIONS : GEOMAGNETISM; CLIMATOLOGY; SIGNAL PROCESSING(TIME SERIES ANALYSIS); POTENTIAL FIELD(GRAVITY AND MAGNETICS)

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.G.R.I. 1980-89; SCIENTIST EI SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : GERMANY, U.K.

PUBLICATIONS & PATENTS : 20.

AWARDS & DISTINCTIONS : KRISHNAN GOLD MEDAL, INDIAN GEOPHYSICAL UNION, 1987; MEMBER, AMERICAN GEOPHYSICAL UNION.

PROFESSIONAL EXPERIENCE(IN YEARS) : MODELLING AND INTERPRETATION OF GEOPHYSICAL/ GEOLOGICAL PROCESSES (BASIC RESEARCH) - 15.

1389

SHRI S VENKATACHALAM; (B. OCTOBER 10, 1944),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. TECH. GEOPHYSICS - ANDHRA '67.

SPECIALIZATIONS : GRAVIMETRY; SPACE GEOLOGY; SEISMOLOGY.

SPECIALIZATIONS : GRAVIMETRY; SPACE GEOLOGY; SEISMOLOGY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1968-88; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MODELLING EARTHQUAKE PROCESS; COMPUTER SOFTWARE FOR SEISMOLOGY GRAVITY ANALYSIS, INTERPRETATION AND GEODETIC VLBI.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 2, RADIO TALKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 22, COMPUTER PROCESSING - 12.

1390

DR B VENKATANARAYANA; (B. DECEMBER 8, 1936),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '58; M.SC. GEOLOGY - OSMANIA '61; PH.D. GEOLOGY - OSMANIA '75.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; MINERAL EXPLORATION; ENGINEERING GEOLOGY; GEOLOGICAL AND STRUCTURAL INVESTIGATIONS.

EXPERIENCE : JUNIOR LECTURER, MUMTAZ COLLEGE, OSMANIA UNIVERSITY, 1961-64; J.S.A., O.N.G.C., DEHRADUN, 1964; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1964-85; SCIENTIST EI, N.G.R.I. SINCE NOVEMBER, 1985.

PRESENT ACTIVITIES : HYDROGEOLOGICAL INVESTIGATIONS AND GEOLOGICAL STUDIES ON THE TECTONICS OF SOUTHERN INDIA.

LANGUAGES : TELUGU, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 36, PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, APP. RES. - 20, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 12.

1391

SHRI G VIRUPAKSHI; (B. JULY 1, 1949),

SCIENTIST EI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - MYSORE '73.

SPECIALIZATIONS : INSTRUMENTATION; MICROPROCESSORS AND SOFTWARE; DESIGN OF P C BASED GEOPHYSICAL INSTRUMENTS.

EXPERIENCE : S.T.A., SCIENTIST B AND SCIENTIST C, N.G.R.I., 1977-88; SCIENTIST EI, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF DIGITAL MAGNETOTELLURIC EQUIPMENTS.

LANGUAGES : KANNADA, TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, MAINTENANCE - 4.

1392

SHRI N C ADHIKARY; (B. JULY 30, 1945),

DRILLING ENGINEER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : HIGHER SECONDARY - W. BENGAL '63.

SPECIALIZATIONS : REPAIR AND MAINTENANCE OF DRILLING RIGS; DRILLING OPERATION.

EXPERIENCE : SKILLED DRILL HELPER, G.S.I., INDIA, 1962-67; ASSISTANT DRILLER AND DRILLER-IN-CHARGE, DIRECTORATE OF GEOLOGY, NAGPUR, 1967-76; DRILLING TECHNICIAN GRADE I, MINERAL EXPLORATION CORPORATION LTD., NAGPUR, 1976-78; DRILLING ENGINEER A AND SCIENTIST B , N.G.R.I. 1978-88; DRILLING ENGINEER (C), N.G.R.I. SINCE OCTOBER 1988.

PRESENT ACTIVITIES : REPAIR AND MAINTENANCE OF DRILLING RIGS/VEHICLES.

LANGUAGES : BENGALI, HINDI, MARATHI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 24, MAINTENANCE - 24.

1393

SHRI JYOTI SWARUP AGRAWAL; (B. JANUARY 7, 1940),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : WIRELESS OPERATOR'S TRAINING COURSE - TELECOMMUNICATION TRAINING CENTRE, JABALPUR '62; LOWER PROFICIENCY CERTIFICATE OF WIRELESS OPERATOR - P & T DEPARTMENT '66.

SPECIALIZATIONS : OPERATION AND MAINTENANCE OF RADIO COMMUNICATION AND ALLIED EQUIPMENTS.

EXPERIENCE : WIRELESS OPERATOR AND TECHNICAL ASSISTANT, P & T DEPARTMENT, 1962-66;TECHNICAL ASSISTANT, MINISTRY OF COMMUNICATIONS, 1968-73; S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1973-88; TECHNICAL OFFICER (C), N.G.R.I. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF RADIO COMMUNICATION AND ALLIED EQUIPMENTS.

LANGUAGES : HINDI, TELUGU, MARATHI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 28, MAINTENANCE - 24, ADMN. - 15.

1394

SHRI S M AHMAD; (B. JULY 15, 1953),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - LUCKNOW '72; M.SC. CHEMISTRY - LUCKNOW '74.

SPECIALIZATIONS : CHEMICAL ANALYSIS; ISOTOPIC ANALYSIS FOR STABLE ISOTOPES.

EXPERIENCE : CHEMIST, J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1974-87; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : CHEMICAL ANALYSIS OF ROCKS, WATER AND MINERALS USING SOPHISITICATED EQUIPMENTS; ISOTOPIC ANALYSIS FOR CARBON AND OXYGEN STABLE ISOTOPES.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 9, OPERATION - 7, TESTING - 9, MAINTENANCE - 9.

1395

DR SHAKEEL AHMED; (B. SEPTEMBER 25, 1958),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - BHU'77; M.SC. (TECH.) GEOPHYSICS - BHU'80; DEA GEOSTATISTICS-PARIS SCHOOL OF MINES, FRANCE '85; PH.D. HYDROGEOLOGY - PARIS SCHOOL OF MINES - FRANCE'87.

SPECIALIZATIONS : GROUNDWATER HYDROLOGY; GEOSTATISTICS AND AQUIFER MODELLING.

EXPERIENCE : SCIENTIST B, N.G.R.I. 1984-87; SCIENTIST C, N.G.R.I. SINCE NOVEMBER 1987.

PRESENT ACTIVITIES : R & D IN GROUNDWATER HYDROLOGY.

LANGUAGES : URDU, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, U.S.A., CANADA, MALAYSIA.

PUBLICATIONS & PATENTS : RES. PAPER - 22, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

1396

SHRI G R BABU; (B. OCTOBER 14, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1397

SHRI A N BHATTACHARYA; (B. JULY 8, 1939),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.A. ENGLISH - JIWAJI '71; CERTIFICATE WIRELESS OPERATOR MECHANIC II AND I - AIR FORCE STATION, BANGALORE '59 AND '63.

SPECIALIZATIONS : OPERATION AND MAINTENANCE OF RADIO COMMUNICATION AND ALLIED EQUIPMENTS.

EXPERIENCE : AIRMAN AND SERGEANT, INDIAN AIR FORCE, 1957-73; S.T.A. AND SCIENTIST A AND TECHNICAL OFFICER (B), N.G.R.I., 1973-89; TECHNICAL OFFICER (C), N.G.R.I. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF RADIO COMMUNICATION AND ALLIED EQUIPMENTS.

LANGUAGES : BENGALI, HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 29, MAINTENANCE - 24, ADMN. - 12.

1398

SHRI K BRAHMACHARY; (B. FEBRUARY 13, 1949),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. MATHS - OSMANIA '72; M.SC. GEOPHYSICS - OSMANIA '76.

SPECIALIZATIONS : ROCK MECHANICS; HYDRAULIC FRACTURING TECHNIQUES; ACOUSTIC EMISSION STUDIES; GEOPHYSICS.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST B, N.G.R.I., 1977-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988. (ALSO TRAINING IN HYDRAULIC FRACTURING TECHNIQUES IN W.GERMANY, 1989-90.)

PRESENT ACTIVITIES : R & D IN ENVIRONMENTAL GEOPHYSICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 22.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 15.

1399

SHRI R K CHADHA; (B. MAY 22, 1955),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '76; M.SC. GEOLOGY - OSMANIA '78.

SPECIALIZATIONS : SEISMOLOGY; GEOLOGICAL AND GEOPHYSICAL SURVEYS; GEOMORPHOLOGY AND TECTONICS.

EXPERIENCE : J.R.F., I.I.P.G., HYDERABAD, 1978-79; SCIENTIFIC ASSISTANT, J.R.F. AND SCIENTIST B, N.G.R.I., 1979-88; SCIENTIST C, N.G.R.I. SINCE NOVEMBER, 1988. (ALSO ADVANCE TRAINING IN SEISMOLOGY IN U.S.S.R.)

PRESENT ACTIVITIES : RESEARCH IN SEISMOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 8, TECH REPORTS - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 13, SURVEY OF NATURAL RESOURCES - 4.

1400

SHRI RAMESH CHAND; (B. JULY 10, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - MEERUT'69; M.SC. PHYSICS - MEERUT'71; M.TECH. APP. GEOPHYSICS - ROORKEE'74.

SPECIALIZATIONS : ISOTOPE HYDROLOGY; GROUNDWATER EXPLORATION & MANAGEMENT.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1974-88; (ALSO RESEARCH/TRAINING IN W.GERMANY,FRANCE AND AUSTRIA, 1977-79, SCIENTIST IN N.I.H., ROORKEE, 1985-87) SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : EXPLORATION AND MANAGEMENT OF GROUNDWATER RESOURCES.

LANGUAGES : HINDI, ENGLISH, GERMAN, FRENCH.

VISITED : WEST GERMANY, FRANCE, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, PAPERS PRESENTED - 10, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14.

1401

DR S NIRMAL CHARAN; (B. APRIL 18, 1951),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '73; M.SC. GEOLOGY - OSMANIA '75; PH.D. ECONOMIC GEOLOGY - OSMANIA '82; ADVANCE DIPLOMA IN GERMAN - HYDERABAD '78.

SPECIALIZATIONS : ECONOMIC GEOLOGY; MINERALOGY AND THERMODYNAMICS; GEOCHEMISTRY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1979-88; (ALSO TRAINING IN EPMA, FRANCE, 1983); SCIENTIST C, N.G.R.I. SINCE 1988.

PRESENT ACTIVITIES : RESEARCH IN GEOCHEMISTRY.

LANGUAGES : TAMIL, HINDI, TELUGU, GERMAN, FRENCH, ENGLISH, KANNADA.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 1/2, OPERATION - 3, MAINTENANCE - 3.

1402

SHRI G NARSIMHA CHARY; (B. AUGUST 6, 1941),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : HIGH SCHOOL - HYDERABAD '58; I.T.T.I. - HYDERABAD '61.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT (ELECTRICAL, MAINTENANCE AND REPAIRS).

1403

SHRI LLOYD D'SILVA; (B. AUGUST 20, 1942),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : L.E.E. ELECTRICAL - A.P.GOVT. '62; B.E. ELECTRICAL - OSMANIA '68.

SPECIALIZATIONS : ELECTRICAL ENGINEERING.

EXPERIENCE : S.L.A., R.R.L. HYDERABAD, 1962-70; S.T.A., TECHNICAL OFFICER A, AND SCIENTIST B , N.G.R.I., 1975-87; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : ELECTRICAL, WATER SUPPLY, AIR CONDITIONING AND REFRIGERATION SERVICES.

LANGUAGES : HINDI, TELUGU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 22, CONSTRUCTION - 22, OPERATION - 22, MAINTENANCE - 22, PLANNING - 22.

1404

SHRI M DEVANANDAM; (B. JULY 17, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1405

SHRI RAJENDRA KUMAR DROLIA; (B. MARCH 25, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '67; M.SC. GEOPHYSICS - B.H.U. '69; DIPLOMA EN. TECH.(GEOTHERMAL TECHNOLOGY) - UNIVERSITY OF AUCKLAND, NEWZEELAND '80.

SPECIALIZATIONS : THEORETICAL GEOPHYISICS; GEOTHERMAL RESOURCES EXPLORATION; GROUNDWATER SURVEYS; MARINE GEOPHYSICS; GEOTHERMICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1971-86; (ALSO TRAINING IN GEOTHERMAL ENERGY TECHNOLOGY, NEWZEALAND, 1980); SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : MARINE GEOPHYSICAL SURVEYS; HEAT FLOW STUDIES.

LANGUAGES : HINDI, ENGLISH, BENGALI.

VISITED : NEWZEALAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 10, SURVEY OF GEOTHERMAL ENERGY RESOURCES - 9, MARINE GEOPHYSICAL SURVEYS - 4.

1406

DR SANTI KUMAR GHOSH; (B. NOVEMBER 24, 1953),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOLOGICAL SCIENCES - I.I.T., KHARAGPUR '75; M.SC. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '77; PH.D. GEOPHYSICS - UNIVERSITY OF MINNESOTA, U.S.A. '83.

SPECIALIZATIONS : SEISMIC EXPLORATION; SEISMIC WAVE PROPAGATION; TIME SERIES ANALYSIS AND SIGNAL PROCESSING; GEOPHYSICAL INVERSION; COMPUTER SOFTWARE DEVELOPMENT.

EXPERIENCE : SCIENTIST B, N.G.R.I., 1984-87; SCIENTIST C, N.G.R.I. SINCE, FEBRUARY 1987.

PRESENT ACTIVITIES : RESEARCH IN SEISMIC EXPLORATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 11.

1407

SHRI B VIJAYA GOPAL; (B. MAY 27, 1956),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA'76; M.SC. (TECH.) APPLIED ELECTRONICS - OSMANIA '79.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION; AIRBORNE INSTRUMENTATION.

EXPERIENCE : SCIENTIFIC ASSISTANT B, SCIENTIFIC ASSISTANT C, SCIENTIFIC OFFICER SB AND SCIENTIFIC OFFICER SE, DAE, HYDERABAD, 1980-88; SCIENTIST C, N.G.R.I. SINCE MAY, 1988.

PRESENT ACTIVITIES : AIRBORNE SURVEYS AND INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, TECH. DEV. - 4, TESTING - 7, MAINTENANCE - 8, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 3, COMPUTER PROCESSING - 1.

1408

DR OM PRAKASH GUPTA; (B. DECEMBER 10, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '68; M.SC. GEOPHYSICS - B.H.U. '70; PH.D. GEOPHYSICS - B.H.U. '83.

SPECIALIZATIONS : GEOELECTROMAGNETISM; RESISTIVITY SURVEYS; EXPLORATION GEOPHYSICS; NUMERICAL ANALYSIS; EXPLORATION OF GEOTHERMAL ENERGY RESOURCES.

EXPERIENCE : RESEARCH FELLOW, B.H.U., 1970-72; J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1972-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN THEORETICAL GEOPHYSICS AND GEOELECTROMAGNETISM.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 24.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 15, SURVEY OF NATURAL RESOURCES - 2, COMPUTER PROCESSING - 6.

1409

SHRI S B GUPTA; (B. JULY 3, 1944),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '68; M.SC. GEOPHYSICS - B.H.U. '70; DIPLOMA IN SINHALESE - B.H.U. '69; COURSE IN GROUNDWATER GEOPHYSICS - OSMANIA '73; CERTIFICATE IN COMPUTER PROGRAMMING - C.S.I., HYDERABAD '74; CERTIFICATE IN RUSSIAN - MINING INSTITUTE, U.S.S.R., '77.

SPECIALIZATIONS : GRAVITY AND MAGNETIC DATA STUDIES; MAGNETOMETER ARRAY STUDIES; GROUNDWATER STUDIES; TECTONICS.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1972-86; (ALSO TRAINING IN MARINE GEOPHYSICS, U.S.S.R., 1976-77); SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN APPLIED GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH, SINHALESE, RUSSIAN.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 11, TEACHING- 2, SURVEY OF NATURAL RESOURCES - 2, COMPUTER PROCESSING - 2.

1410

SHRI K HARI; (B. FEBRUARY 10, 1951),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.COM. - OSMANIA '79; P.G. DIP. IN PERSONNEL MANAGEMENT - A.P. PRODUCTIVITY COUNCIL '77.

SPECIALIZATIONS : PROJECT PLANNING AND MANAGEMENT.

EXPERIENCE : JR. STENO, TECHNICAL ASSISTANT, TECHNICAL OFFICER (B), N.G.R.I., 1972-89; TECHNICAL OFFICER (C), N.G.R.I. SINCE MAY, 1989.

PRESENT ACTIVITIES : PLANNING, MONITORING AND EVALUATION OF RESEARCH PROJECTS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 10.

1411

DR S S H JAFRI; (B. MARCH 10, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - A.M.U. '72; M.SC. GEOLOGY - A.M.U. '74; PH.D. GEOLOGY - A.M.U. '81.

SPECIALIZATIONS : GEOCHEMISTRY.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1977-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

1412

SHRI BRIJ MOHAN KHANNA; (B. OCTOBER 5, 1954),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '76; M.SC. GEOLOGY - OSMANIA '78; P.G.D. - OSMANIA '79; M.LIB.SC. - B.H.U. '81.

SPECIALIZATIONS : LIBRARY MANAGEMENT

EXPERIENCE : S.T.A., INDIAN INSTITUTE OF TROP. MET., 1980-83; LECTURER AND LIBRARIAN, S.P.C. COLLEGE, 1983-85; TECHNICAL OFFICER (B), N.G.R.I. 1985- 90; TECHNICAL OFFICER (C), N.G.R.I. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : LIBRARY AND DOCUMENTATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH, TELUGU, URDU, RUSSIAN, MARATHI.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, TEACHING - 2, DOCUMEN - 8, REPROGRAPHY - 2.

1413

SHRI K KRISHNA; (B. JUNE 12, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1414

SHRI N RAVI KUMAR; (B. MAY 18, 1951),

SCIENTIST C, NATIONAL GEOPHYSICAL RASEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRICAL - MADRAS '73.

SPECIALIZATIONS : ANALOG AND DIGITAL COMPUTERS; STATIC POWER CONVERTORS AND APPLICATIONS; INSTRUMENTATION.

EXPERIENCE : J.R.F., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., 1976-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : INSTRUMENTATION; ARGON DATING; SERVICING AND MAINTENANCE OF ANALYTICAL INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, TAMIL, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 3, MAINTENANCE - 4.

1415

MRS E C MALAIMANI; (B. MAY 15, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND TELECOMMUNICATION - MADRAS '74.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION; ELECTRONICS & COMMUNICATION.

EXPERIENCE : ASSOCIATE LECTURER, GOVT. POLYTECHNIC FOR WOMEN, MADRAS, 1974-77; S.S.A., D.L.R.L., HYDERABAD, 1977-81; SCIENTIST B, N.G.R.I. 1981-86; SCIENTIST C, N.G.R.I. SINCE JANUARY 1986.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF HARDWARE FOR GEOPHYSICAL INSTRUMENTS; SOFTWARE DEVELOPMENT AND DATA PROCESSING; ACCURATE POSITION/ LOCATION DETERMINATION USING G.P.S. TECHNOLOGY.

LANGUAGES : TAMIL, TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, DESIGN - 6, TEACHING - 3, MAINTAINENCE - 6, COMPUTER PROCESSING - 7.

1416

SHRI J K MALHOTRA; (B. JANUARY 21, 1942),

DRILLING ENGINEER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : I.T.I. IN DRILLING.

SPECIALIZATIONS : DRILLING.

EXPERIENCE : DRILLING ASSISTANT, O.N.G.C., DEHRADUN, 1960-75; DRILLING ENGINEER (B), N.G.R.I., 1976-81; DRILLING ENGINEER (C), N.G.R.I. SINCE JUNE, 1981.

PRESENT ACTIVITIES : DRILLING AND MAINTENANCE OF RIGS, REPAIR AND MAINTENANCE OF VEHICLES, PUMPS AND OTHER ALLIED EQUIPMENTS.

PROFESSIONAL EXPERIENCE(IN YEARS) : DRILLING - 28.

1417

SHRI D M MALL; (B. AUGUST 5, 1949),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '69; M.SC. GEOPHYSICS - B.H.U. '72.

SPECIALIZATIONS : DEEP SEISMIC SOUNDING.

EXPERIENCE : J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1972-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : DEEP SEISMIC SOUNDING STUDIES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, OPERATION - 3, COMPUTER PROCESSING - 8.

1418

SHRI S MANOHAR; (B. MAY 15, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '71; M.SC. PHYSICS - VIKRAM '74.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION; ELECTRONICS.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1977-88; SCIENTIST B, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN & DEVELOPMENT OF AE MONITOR, ACOUSTIC EMISSION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 3, OPERATION - 3, DESIGN - 6, MAINTENANCE - 4, TESTING - 1, DOCUMENTATION - 2.

1419

MRS R MATHUR; (B. FEBRUARY 2, 1956),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '76; M.SC. CHEMISTRY - OSMANIA '78.

SPECIALIZATIONS : INORGANIC CHEMISTRY; ISOTOPE GEOCHEMISTRY.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1979-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN STABLE ISOTOPE GEOCHEMISTRY.

LANGUAGES : HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12.

1420

SHRI D NARASIMHA MURTHY; (B. SEPTEMBER 20, 1951),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - S.V.UNIVERSITY '71; B.TECH. ELECTRONICS AND COMMUNICATION - B.H.U. '75; M.E.ELECTRONICS AND COMMUNICATION - MADRAS UNIVERSITY '78.

SPECIALIZATIONS : MAGNETOTELLURIC INSTRUMENTATION.

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.G.R.I., 1980-90; SCIENTIST EI, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : MAINTENANCE OF MAGNETOTELLURIC EQUIPMENT; DESIGN AND DEVELOPMENT OF MAGNETOTELLURIC INSTRUMENTS; MT FIELD INVESTIGATIONS IN DIFFERENT PLACES ASSISTING OIL EXPLORATION ACTIVITY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 5, TESTING - 1, MAINTENANCE - 1.

1421

SHRI P NAGABHUSHANAM; (B. AUGUST 6, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '75; M.SC. APPLIED ELECTRONICS - OSMANIA '79.

SPECIALIZATIONS : APPLIED ELECTRONICS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1980-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN & MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 10, OPERATION - 7, TESTING - 10, MAINTENANCE - 10.

1422

DR NANDINI N NAGARAJAN; (B. APRIL 23, 1950),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS.) GEOPHYSICAL SCIENCE - I.I.T., KHARAGPUR '70; M.SC. EXPLORATION, GEOPHYSICS - IIT, KHARAGPUR '72'; PH.D. GEOPHYSICS - MADRAS '84.

SPECIALIZATIONS : ELECTROMAGNETIC INDUCTION; MAGNETOTELLURICS; GEOMAGNETIC INDUCTION.

EXPERIENCE : RESEARCH ASSOCIATE, FELLOW, INDIAN INSTITUTE OF GEOMAGNETISM, BOMBAY, 1972-78; POOL OFFICER, I.I.SC. BANGALORE, 1985-87; READER, INDIAN INSTITUTE OF GEOMAGNETISM, BOMBAY, 1987-89; SCIENTIST C, N.G.R.I. SINCE MAY, 1989.

PRESENT ACTIVITIES : RESEARCH; SURVEY OF NATURAL RESOURES; COMPUTER PROCESSING; ELECTROMAGNETIC INDUCTION.

LANGUAGES : TAMIL, ENGLISH, HINDI, BENGALI, GUJARATI.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH -14, TEACHING - 2, SURVEY OF NAT. RESOURCES - 3, PLANNING - 2, COMPUTER PROCESSING -10.

1423

SHRI D INDIRA NAGUBAI; (B. MARCH 29, 1953),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - BANGALORE '73; M.SC. MATHEMATICS - BANGALORE '75; CERTIFICATE IN COMPUTER PROGRAMMING - OSMANIA '76.

SPECIALIZATIONS : MATHEMATICAL MODELLING; COMPUTER PROGRAMMING.

EXPERIENCE : J.L.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1976-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986; (ALSO MODELLING OF THERMOMECHANICAL PROCESSES WITH IN THE LITHOSPHERE AND CONVECTIVE REGIMES BELOW IT WITH SPECIAL REFERENCE TO INDIAN LITHOSPHERE, FRANCE, 1986).

PRESENT ACTIVITIES : MODELLING OF NONLINEAR GEOPHYSICAL PHENOMENA; CONTINENTAL COLLISIONAL AREAS.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 2, COMPUTER PROCESSING - 6.

1424

SHRI C P PURUSHOTHAMAN NAIR; (B. JUNE 26, 1939),

INFORMATION OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - KERALA '59; DIPLOMA IN JOURNALISM AND PUBLIC RELATIONS - BHAVAN'S COLLEGE OF MASS COMMUNICATION '75; CERTIFICATE IN GERMAN LANGUAGE - MAX MULLER BHAVAN '73.

SPECIALIZATIONS : INFORMATION DISSEMINATION; PUBLIC RELATIONS.

EXPERIENCE : J.L.A., S.L.A. AND J.S.A., C.F.R.I., 1960-70; J.T.A., S.S.A. AND SCIENTIST A AND TECHNICAL OFFICER (B), N.G.R.I., 1970-88; TECHNICAL OFFICER (C), N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : PUBLICATION AND PUBLIC RELATIONS.

LANGUAGES : MALAYALAM, HINDI, BENGALI, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING, EXTENSION, PUBLIC RELATIONS - 30.

1425

SHRI N R NATH; (B. AUGUST 1, 1945),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : CERTIFICATE, WIRELESS OPERATOR - INDIAN NAVAL SIGNAL SCHOOL '62; CERTIFICATE, WIRELESS SUPERVISOR - INDIAN NAVAL SIGNAL SCHOOL '65; PETTY OFFICER WIRELESS CERTIFICATE COURSE - INDIAN NAVAL SCHOOL '70.

SPECIALIZATIONS : RADIO COMMUNICATION.

EXPERIENCE : WIRELESS TELEGRAPHIST , PETTY OFFICER, INDIAN NAVY, 1961-72; CI, N.G.R.I. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF RADIO COMMUNICATION AND ALLIED EQUIPMENTS.

LANGUAGES : BENGALI, HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 28, MAINTENANCE - 24, ADMN. - 15.

1426

MRS V M PADMAKUMARI; (B. DECEMBER 27, 1950),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - KERALA '69; M.SC. GEOPHYSICS - OSMANIA '73.

SPECIALIZATIONS : ISOTOPE GEOLOGY; GEOCHRONOLOGY.

EXPERIENCE : S.S.A., SCIENTIST B, N.G.R.I., 1978-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN GEOCHRONOLOGY; STUDIES OF POTTASSIUM - ARGON DATING ON DIFFERENT GEOLOGICAL UNITS; STUDIES ON FLUID INCLUSIONS.

LANGUAGES : MALAYALAM, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 12.

1427

SHRI P PANKAJAKSHAN; (B. AUGUST 3, 1944),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : SSLC - KERALA '61.

SPECIALIZATIONS : DRILLING OF SHOT HOLES FOR SEISMIC RECORDING; REPAIR AND MAINTENANCE OF URB DRILLING RIGS AND ALLIED MACHINERIES.

EXPERIENCE : J.T.A., S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.G.R.I., 1974-89; TECHNICAL OFFICER (C), N.G.R.I. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : DRILLING OF SHOT HOLES FOR DSS.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, TAMIL, TELUGU.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 16, REPAIR & MAINTENANCE - 16.

1428

SHRI G VENKATACHALAM PANTULU; (B. JANUARY 1, 1955),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '76; M.SC. CHEMISTRY - ANDHRA '78; PH.D. GIOCHEMISTRY - OSMANIA '88.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY; GEOCHEMISTRY.

EXPERIENCE : TRAINEE CHEMIST, WARNER HINDUSTAN LTD., 1979-80; TECHNICAL ASSISTANT, SCIENTIST A AND SCIENTIST B, N.G.R.I., 1980-88; SCEINTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN GEOCHRONOLOGY AND GEOCHEMICAL ANALYSIS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : QUALITY CONTROL - 1, BASIC RESEARCH IN GEOCHAMICAL ANALYSIS AND GEOCHENOLOGY - 5.

1429

SHRI M RAVI PRAKASH; (B. JULY 8, 1950),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '72; M.A. STATISTICS - OSMANIA '75; M.PHIL. STATISTICS - OSMANIA '90.

SPECIALIZATIONS : OPERATIONAL RESEARCH; LINEAR PROGRAMMING; GEOSTATISTICAL METHODOLOGY; COMPUTER PROGRAMMING; NUMERICAL ANALYSIS.

EXPERIENCE : STATISTICAL INVESTIGATOR, ADMINISTRATIVE STAFF COLLEGE, HYDERABAD, 1977; R.A., OSMANIA UNIV., 1978-80; SCIENTIST A AND SCIENTIST B, N.G.R.I. 1981-88; SCIENTIST C, N.G.R.I. SINCE APRIL , 1988.

PRESENT ACTIVITIES : R & D IN GEOSTATISTICS, STATISTICS AND OPERATIONS RESEARCH.

LANGUAGES : MARATHI, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECHNICAL REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, COMPUTER PROCESSING - 9.

1430

SHRI K SYAMA PRASAD; (B. NOVEMBER 28, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) APPLIED PHYSICS - ANDHRA '70.

SPECIALIZATIONS : GEOPHYSICAL ELECTRONICS AND OPTICAL INSTRUMENTATION.

EXPERIENCE : OPTICAL ENGINEER, HARVIN OPTICAL AND GLASS INDUSTRIES, HYDERABAD, 1971-76; S.T.A. AND SCIENTIST B, N.G.R.I., 1976-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : PROTOTYPING OF NEW INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING, QUALITY CONTROL, MAINTENANCE (12 YEARS).

1431

SHRI N P RAJENDER PRASAD; (B. SEPTEMBER 12, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '73; M.SC. APP.ELECTRONICS - OSMANIA '75.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION; GEOPHYSICAL SURVEYS.

EXPERIENCE : S.S.A. AND SCINETIST B, N.G.R.I., 1976-85; (ALSO ADVANCED TRAINING UNDER DAAD FELLOWSHIP PROGRAMME, W.GERMANY, 1984-85); SCIENTIST C, N.G.R.I. SINCE MAY, 1985.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF GEOPHYSICAL INSTRUMENTS; GEOPHYSICAL SURVEYS

LANGUAGES : TELUGU, HINDI, URDU, ENGLISH, GERMAN

VISITED : WEST GERMANY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 7, TECH. DEV. - 2, OPERATION - 2, MAINTENANCE - 2, TESTING - 1.

1432

SHRI P P PRASAD; (B. APRIL 15, 1956),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1433

SHRI D V RAMANA; (B. AUGUST 15, 1961),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. APPLIED MATHEMATICS - OSMANIA '83.

SPECIALIZATIONS : MATHEMATICAL MODELLING IN LITHOSPHERE.

EXPERIENCE : J.R.F., S.R.F. AND SCIENTIS B, N.G.R.I., 1984-90; SCIENTIST C, N.G.R.I. SINCE MARCH, 1990.

PRESENT ACTIVITIES : MATHEMATICAL MODELLING IN LITHOSPHERE.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : PUBLICATION - 2, TECHNICAL REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3. COMPUTER PROCESSING - 3.

1434

SHRI B D RAMAYYA; (B. MAY 20, 1949),

SCIENTIST C. NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : L.E.C.E. ELECTRONICS AND COMMUNICATION - ANDHRA PRADESH '68; A.M.I.E.T.E. ELECTRONICS AND COMMUNICATION - INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA '74.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : J.T.A. AND S.T.A., C.E.E.R.I., 1970-75; S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1975-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 10, MAINTENANCE - 10, DESIGN - 10 - APPLIED RESEARCH - 8.

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. (ELECTRICAL) - OSMANIA '68.

SPECIALIZATIONS : POWER ENGINEERING.

EXPERIENCE : S.T.A. AND SCIENTIST B, N.G.R.I., 1975-87; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1987.

LANGUAGES : TELUGU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 5, DESIGN - 5, OPERATION - 5, CONSTRUCTION - 5, MAINTENANCE - 5.

1447

SHRI M SITARAM RAO; (B. DECEMBER 20, 1944),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1448

SHRI MUTNURI SOMESWARA RAO; (B. JANUARY 20, 1950),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '69; M.SC. GEOPHYSICS - ANDHRA '73.

SPECIALIZATIONS : PALEOMAGNETISM; GEOELECTROMAGNETISM; MAGNETOTELLURICS.

EXPERIENCE : J.R.F., S.R.F., S.S.A. AND SCIENTIST B, N.G.R.I., 1974-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY 1986.

PRESENT ACTIVITIES : R & D IN MAGNETOTELLURICS; GEOELECTROMAGNETISM.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 4, APP. RES. - 4, SURVEY OF NAT. RESOURCES - 2, MAINTENANCE - 2.

1449

DR P KOTESWARA RAO; (B. JUNE 14, 1951),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '71; M.SC. (TECH.) GEOPHYSICS - ANDHRA '75; PH.D. GEOPHYSICS - ANDHRA '81; SENIOR DIPLOMA IN RUSSIAN - ANDHRA '78; P.G. CERTIFICATE IN COMPUTER PROGRAMMING - J.N.T.U. '82.

SPECIALIZATIONS : DEEP SEISMIC SOUNDING; COMPUTER PROGRAMMING.

EXPERIENCE : S.S.A. AND SCIENTIST B, N.G.R.I., 1980-87; SCIENTIST C N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DEEP SEISMIC SOUNDING; DATA PROCESSING.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECHNICAL REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12.

1450

SHRI S NAGESWARA RAO; (B. NOVEMBER 4, 1953),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '74; M.SC.(TECH) ENGINEERING PHYSICS - KAKATIYA '77.

SPECIALIZATIONS : SOLID STATE ELECTRONICS; MICROPROCESSOR BASED PROCESS CONTROL SYSTEMS; LINEAR INTEGRATED CIRCUITS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.O., CHANDIGARH, 1979-88; SCIENTIST C, N.G.R.I SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MICROPROCESSOR BASED GEOPHYSICAL INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, DESIGN - 7.

1451

SHRI S V V PRASADA RAO; (B. MAY 15, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH), GEOPHYSICS - ANDHRA '72.

SPECIALIZATIONS : BOREHOLE GEOPHYSICS; GROUNDWATER EXPLORATION.

EXPERIENCE : S.T.A., C.G.W.B., SCIENTIST B, N.G.R.I. 1973-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN GEOPHYSICS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : AUSTRALIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RESEARCH - 17.

1452

DR T VENKATESWARA RAO; (B. JULY 10, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '69; M.SC. (TECH.) EXPLORATION GEOPHYSICS - ANDHRA '74; D.SC. EXPLORATION GEOPHYSICS - TOKAI UNIVERSITY, JAPAN '87.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; MINERAL EXPLORATION; ENGINEERING GEOPHYSICS.

EXPERIENCE : GEOPHYSICIST, NGRI, 1974-78; JRF, IIPG, HYDERABAD, 1978; STA AND SCIENTIST B, N.G.R.I., 1978-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY 1986; (ALSO VISITING SCIENTISTS, RYUKUS UNIVERSITY, JAPAN, 1988).

PRESENT ACTIVITIES : R & D IN GROUNDWATER EXPLORATION.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN, JAPANESE.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 29.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, IND. MGMT. - 12, SURVEY OF NATURAL RESOURCES - 16, TECH. TRANSFER - 12, COMPUTER PROCESSING - 7.

1453

DR V ANANDA RAO; (B. JULY 1, 1949),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. - (TECH.) GEOPHYSICS - ANDHRA '74; PH.D. GROUND WATER GEOPHYSICS - ANDHRA '82.

SPECIALIZATIONS : GROUNDWATER EXPLORATION.

EXPERIENCE : GEOPHYSICIST, J.R.F., S.S.A. AND SCIENTIST B, N.G.R.I., 1974-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : GEOPHYSICAL EXPLORATION FOR GROUNDWATER.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 15, THESIS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. AND SURVEY FOR GROUNDWATER (TOTAL: 16 YEARS).

1454

SHRI V K RAO; (B. APRIL 1, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '70; M.SC. GEOPHYSICS - B.H.U. '72.

SPECIALIZATIONS : SEISMOLOGY.

EXPERIENCE : J.R.F. AND S.T.A., N.G.R.I., 1972-81; (ALSO TRAINING IN DEEP SEISMIC SOUNDING, DATA PROCESSING AND INTERPRETATION, U.S.S.R.,1978); SCIENTIST B, N.G.R.I., 1981-1986; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D IN SEISMOLOGY & D.S.S. DATA PROCESSING AND ITS INTERPRETATION.

LANGUAGES : MARATHI, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAFERS - 7, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. -14. TECHNO-ECONOMIC SURVEYS - 6, COMPUTER PROCESSING - 10.

1455

SHRI V VIJAYA RAO; (B. DECEMBER 3, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '72; M.SC. PHYSICS - OSMANIA '74; P.G. CERTIFICATE IN FORTRAN AND NUMERICAL ANALYSIS - J.N.T.U. '82; CERTIFICATE IN COBOL - C.S.I. '82; CERTIFICATE IN MICROPROCESSORS - A.T.I. '82.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1977-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : COMPUTER PROCESSING AND DSS DATA ACQUISITION.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, COMPUTER PROCESSING - 4.

1456

SHRI Y N T SESHAGIRI RAO; (B. MAY 10, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - ANDHRA '69.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION; ARTIFICIAL INTELLIGENCE SYSTEMS; SYSTEMS ENGINEERING; TECHNOLOGY TRANSFER.

EXPERIENCE : S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1973-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH & DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : PUBLICATIONS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D, DESIGN, MAINTENANCE & PRODUCTION (TOTAL: 18 YEARS).

1457

SHRI G KOTI REDDY; (B. JULY 1, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '67; M.SC. NUCLEAR PHYSICS - ANDHRA '70.

SPECIALIZATIONS : ROCK RADIOACTIVITY; AIRBORNE RADIOMETRY; GROUND RADIOMETRY.

EXPERIENCE : INCHARGE QUALITY CONTROL, V.V. RAMA RAO & CO. 1974-77; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1977-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN HELIUM EMANOMETRY FOR PETROLEUM EXPLORATION.

LANGUAGES : TELUGU, ENGLISH. HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 13, QUALITY CONTROL - 3.

1458

SHRI P MOHAN REDDY; (B. JANUARY 1, 1952),

SCIENTIST CI, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1459

SHRI M V R S SAI; (B. FEBRUARY 18, 1954.),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.COM - OSMANIA '74.

SPECIALIZATIONS : PROJECT PLANNING; PUBLIC RELATIONS.

EXPERIENCE : S.T.A., TECHNICAL OFFICER A AND TECHNICAL OFFICER (B), N.G.R.I., 1980-90; TECHNICAL OFFICER (CI), N.G.R.I. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : PROJECT PLANNING; PUBLIC RELATIONS.

LANGUAGES : TELUGU, TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING & PUBLIC RELATIONS - 11.

1460

SHRI S SANKARAN; (B. SEPTEMBER 19, 1955),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - MADRAS '75; M.SC. TECH. GEOPHYSICS - OSMANIA '78; M.TECH. MINING GEOPHYSICS - I.S.M. '79.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; WELL LOGGING GEODYNAMICS; GROUNDWATER MODELLING; ARTIFICIAL RECHARGE BY HYDROFRACTURING TECHNOLOGY.

EXPERIENCE : GEOPHYSICAL ASSISTANT, P.W.D., MADRAS,1979; GEOPHYSICIST , AFPRO (GIT), BANARAS, 1980; S.S.A. AND SCIENTIST B, N.G.R.I., 1980-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, TELUGU, HINDI, ENGLISH, MALAYALAM.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12. SURVEY OF NATURAL RESOURCES - 5. COMPUTER PROCESSING - 10 AND GROUNDWATER MODELLING - 10.

1461

SHRI J R K SARMA; (B. MAY 15, 1944),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '65; M.SC. (TECH.) GEOPHYSICS - ANDHRA '68.

SPECIALIZATIONS : GROUNDWATER SURVEYS; GRAVITY STUDIES.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B. N.G.R.I., 1972-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH; SURVEY OF NATURAL RESOURCES.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECHNICAL REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, SURVEY OF NATURAL RESOURCES - 9.

1462

SHRI L PRABHAKARA SARMA; (B. JANUARY 8, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '62; M.SC. PHYSICS - GARHWAL '75; CERTIFICATE IN RADIO SERVICING - ITES, BOMBAY '72.

SPECIALIZATIONS : ELECTRONICS; ACOUSTICS; TRANSDUCERS; ULTRASONICS.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.S.A., SCIENTIST B, N.G.R.I. 1970-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORT - 1, PATENTS TAKEN - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 17, DESIGN - 17, TECH. DEV. - 17.

1463

SHRI M PURUSHOTHAMA SARMA; (B. OCTOBER 7, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND TELECOMMUNICATION ENGINEERING - ANDHRA '73; M.TECH. ADVANCED ELECTRONICS - J.N.T.U. '82.

SPECIALIZATIONS : DIGITAL COMMUNICATION SYSTEMS; GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : S.S.A., D.E.R.L. HYDERABAD, 1974-81; SCIENTIST B, N.G.R.I. 1981-1986; SCIENTIST C, N.G.R.I. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : DESIGN, DEVELOPMENT AND MAINTENANCE OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, DEVELOPMENT & MAINTENANCE - 10.

1464

SHRI V SUBRAHMANYA SARMA; (B. APRIL 28, 1951),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '74; PH.D. GEOPHYSICS - ANDHRA '82.

SPECIALIZATIONS : GEOPHYSICS.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1977-87; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN RESISTIVITY AND INDUSTRIAL POLARISATION METHODS OF PROSPECTING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECHNICAL REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 14.

1465

DR S P SATHYABALA; (B. NOVEMBER 1, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '73; M.SC. PHYSICS - OSMANIA '76; PH.D. PHYSICS OSMANIA '84.

SPECIALIZATIONS : SIGNAL PROCESSING; ELECTRONICS.

EXPERIENCE : RESEARCH SCIENTIST, OSMANIA UNIVERSITY; FILLOW, N.G.R.I, 1987-88; SCIENTIST C, N.G.R.I. SINCE NOVEMBER, 1988.(ALSO STUDIES PATTERN RECOGNITION AND SIGNAL PROCESSING IN USSR, 1989.)

PRESENT ACTIVITIES : PLATE MOTION MODELLING PROCESSING AND INTERPRETATION OF VLBI DATA.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, COMMUNICATED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, CONSTRUCTION - 4.

1466

DR B N SATPATHY; (B. JUNE 27, 1941),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - UTKAL '62; B.SC.(HONS) GEOLOGICAL SCIENCES, - IIT, KHARAGPUR '64; M.SC. EXPLORATION GEOPHYSICS - IIT, KHARAGPUR '66; PH.D. GEOPHYSICS - ISM, DHANBAD '77.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; ENGINEERING GEOPHYSICS; REMOTE SENSING; GEOHYDROLOGY AND GROUNDWATER MANAGEMENT.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1966-78; (TRAINING IN GROUNDWATER MANAGEMENT, GERMANY, 1974-75; ON DEPUTATION TO ORISSA LIFT IRRIGATION CORPORATION; IRRIGATION DEPARTMENT AND REMOTE SENSING APPLICATION CENTRE, BHUBANESWAR, 1977-87); SCIENTIST C, N.G.R.I. SINCE MARCH 1978.

PRESENT ACTIVITIES : GROUNDWATER EXPLORATION.

LANGUAGES : ORIYA, HINDI, ENGLISH, BENGALI, SANSKRIT, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS RES. PAPERS - 15. TECH REPORTS - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 7, APP. RES. - 25, EDITING - 5.

1467

DR V K SAXENA; (B. JULY 1, 1945),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. CHEMISTRY - A.P.S. '69; POST GRADUATE DIPLOMA IN GEOTHERMICS, INTERNATIONAL SCHOOL OF GEOTHERMICS: PISA. ITALY. 82: PH.D. GEOLOGY, A.P.S. '83.

SPECIALIZATIONS : GEOTHERMICS; GEOCHEMISTRY.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST B, N.G.R.I., 1973-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN GEOTHERMICS AND GEOCHEMISTRY.

LANGUAGES : HINDI, ENGLISH, ITALIAN.

VISITED : ITALY, THAILAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 23. TECHNICAL REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 2, SURVEY OF NATURAL RESOURCES AND GEOCHEMICAL STUDIES - 16.

1468

SHRI T CHANDRA SEKHAR; (B. FEBRUARY 9, 1953),

SCIENTIST C. NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.E. ELECTRONICS AND COMMUNICATION - OSMANIA '75.

SPECIALIZATIONS : DIGITAL ELECTRONICS; MICROPROCESSORS; GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1976-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN GEOPHYSICAL INSTRUMENTATION.

LANGUAGES : TELUGU, TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, DESIGN - 8.

1469

SHRI J B SELVARAJ; (B. MAY 30, 1947),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '68; M.SC. STATISTICS - OSMANIA '71.

SPECIALIZATIONS : OPERATIONAL RESEARCH; STATISTICS; SOFTWARE DEVELOPMENT.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1973-90; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN STOCHASTIC MODELLING AND COMPUTER SOFTWARE DEVELOPMENT.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, COMPUTER PROCESSING - 15.

1470

DR S R SHARMA; (B. DECEMBER 18, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - AGRA '65; M.SC. PHYSICS - MEERUT '67; PH.D. PHYSICS - MEERUT '83; P.G. DIPLOMA IN GEOTHERMAL TECHNOLOGY - NEWZELAND '82.

SPECIALIZATIONS : GEOTHERMIC STUDIES.

EXPERIENCE : LECTURER, M.M. COLLEGE, KHEKRA, 1969-73; J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1973-88; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN MINERAL PHYSICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : NEWZELAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 34, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 17, TEACHING - 6.

1471

SHRI BIJENDRA SINGH; (B. NOVEMBER 26, 1953),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '73; M.SC., GEOPHYSICS - B.H.U. '75.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; COMPUTER SOFTWARE DEVELOPMENT.

EXPERIENCE : SENIOR SCIENTIFIC ASSTT, SCIENTIFIC OFFICER, ATOMIC MINERALS DIVISION, 1978-82; SCIENTIST B, N.G.R.I., 1982-87; SCIENTIST C, N.G.R.I. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : RESEARCH IN ELECTRICAL GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, SURVEY OF NAT. RESOURCES - 5, COMPUTER PROCESSING - 5.

1472

DR D D SINGH; (B. MAY 19, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. (HONS.) GEOLOGY - PATNA '66; B.SC. (HONS.) APPLIED GEOPHYSICS - I.S.M. '69; M.SC. APPLIED GEOPHYSICS - I.S.M. '70; PH.D. APPLIED GEOPHYSICS - I.S.M. '80.

SPECIALIZATIONS : SEISMOLOGY; DATA PROCESSING AND MODELLING ; COMPUTER PROGRAMMING.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1971-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN OBSERVATIONAL SEISMOLOGY.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 26.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. -10, COMPUTER PROCESSING - 9.

1473

SHRI INDERJIT SINGH; (B. JANUARY 10, 1940),

DRILLING ENGINEER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : MATRICULATION - PUNJAB '57, ELECTRICIAN'S CERTIFICATE - I.T.I. PUNJAB '62; ELECTRICAL FOREMAN CERTIFICATE - DELHI '69.

SPECIALIZATIONS : DRILLING.

EXPERIENCE : LINES' MAN-WIREMAN, DESU, 1962-66; TUBEWELL OPERATOR AND DRILLER CUM MECHANIC, DELHI ADMINISTRATION, 1966-80; DRILLING ENGINEER A AND DRILLING ENGINEERING B, N.G.R.I. 1980-90; TECHNICAL OFFICER C, N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : DRILLING; REPAIR AND MAINTENANCE OF RIGS, VEHICLES.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 24, OPERATION - 24.

1474

DR S B SINGH; (B. JULY 15, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '70; M.SC. GEOPHYSICS - B.H.U. '72; PH.D. GEOPHYSIS - B.H.U. '85.

SPECIALIZATIONS : GEOPHYSICAL EXPLORATION; GEOPHYSICAL SURVEYS; HEAT FLOW STUDIES.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, N.G.R.I., 1973-81; (ALSO TRAINING IN GEOTHERMICS, ITALY, 1976); SCIENTIST B AND SCIENTIST C, N.G.R.I., 1981-90; SCIENTIST EI., N.G.R.I. SINCE FEBRUARY 1990.

PRESENT ACTIVITIES : RESEARCH IN GEOPHYSICAL EXPLORATION FOR GEOTHERMAL ENERGY RESOURCES AND TECHNOLOGY MISSION FOR PROVIDING DRINKING WATER TO INDIAN VILLAGES.

LANGUAGES : HINDI, ENGLISH, ITALIAN.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 2, SURVEY OF NATURAL RESOURCES - 14.

1475

SHRI P SITARAM; (B. JULY 21, 1941),

TECHNICAL OFFICER (C), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : WIRELESS OPERATOR'S CERTIFICATE - INDIAN AIR FORCE '61.

SPECIALIZATIONS : MARINE GEOPHYSICS; MAINTAINENCE OF OCEAN BOTTOM SEISMOGRAPH; OPERATION AND MAINTENANCE OF WIRELESS COMMUNICATION INSTRUMENTS.

EXPERIENCE : AIR CRAFTS MAN, INDIAN AIR FORCE, 1960-64; RADIO INSPECTOR, DEPARTMENT OF HOME, ORISSA, 1965-66; V.H.F. TECHNICIAN, CENTRAL COAL MINES RESCUE STATIONS COMMITTEE, DHANBAD, 1966-67; TECHNICIAN GR.I., MINISTRY OF COMMUNICATION, MADRAS, 1967-72; (ALSO TRAINING IN OCEAN BOTTOM SEISMOGRAPH, U.S.S.R., 1978); S.T.A.,TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), N.G.R.I., 1973-89; TECHNICAL OFFICER (C), N.G.R.I. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : OPERATION AND MAINTENANCE OF WIRELESS COMMUNICATION INSTRUMENTS; FIELD OPERATION IN DEEP SEISMIC SOUNDING PROJECTS.

LANGUAGES : TELUGU, HINDI, ORIA, TAMIL, ENGLISH.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 29, MAINTENANCE - 27.

1476

SHRI T V SIVARAMAN; (B. OCTOBER 22, 1945),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '67; M.SC. GEOLOGY - B.H.U. '69; M.S. GEOLOGY - F.S.O., U.S.A. '80; PH.D. GEOLOGY - FLORIDA STATE UNIVERSITY, U.S.A. '83.

SPECIALIZATIONS : GEOCHRONOLOGY; COMPUTER PROGRAMMING.

EXPERIENCE : SCIENTIST B, N.G.R.I., 1983-87; SCIENTIST C, N.G.R.I. SINCE FEBRUARY 1987.

PRESENT ACTIVITIES : R & D IN GEOLOGY.

LANGUAGES : TAMIL, ENGLISH, HINDI.

VISITED : U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, TEACHING - 3.

1477

DR M V SUBBARAO; (B. JULY 1, 1950),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '71; M.SC. (TECH.) APPLIED GEOLOGY - ANDHRA '75; PH.D. GEOLOGY - ANDHRA '87.

SPECIALIZATIONS : GEOCHEMISTRY; PETROGRAPHY; FIELD GEOLOGY.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.G.R.I., 1977-88; SCIENTIST B, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN GEOCHEMISTRY.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BAS. RES. - 14, APP. RES. - 14.

1478

SHRI K SUBRAHMANYAM; (B. JULY 28, 1948),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC. (TECH.) GEOPHYSICS - ANDHRA '72.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; DAM SITE INVESTIGATIONS; ENGINEERING GEOPHYSICS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, N.G.R.I., 1973-86; SCIENTIST C, N.G.R.I. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D ON GROUNDWATER RESOURCES; GEOPHYSICAL INVESTIGATIONS AT DAM SITES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., CONSULTANCY, SURVEY OF NATURAL RESOURCES (14 YEARS).

1479

SHRI ACHUTUNI SUNDAR; (B. JULY 7, 1957),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '76; M.SC. (TECH) GEOPHYSICS - ANDHRA '79.

SPECIALIZATIONS : HEAT FLOW STUDIES.

EXPERIENCE : J.R.F., I.I.P.G. 1979-82; J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1982-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN HEAT FLOW STUDIES.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 7.

1480

DR NARESH KUMAR THAKUR; (B. JULY 10, 1946),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '65; M.SC. (TECH.) GEOPHYSICS - OSMANIA '70; PH.D. GEOPHYSICS '84.

SPECIALIZATIONS : GEOMAGNETISM; COMPUTER PROGRAMMING; MAGNETIC SATELLITE DATA; OCEAN ACOUSTIC TOMOGRAPHY; INVERSE METHODS.

EXPERIENCE : J.R.F., OSMANIA UNIVERSITY, HYDERABAD, 1972-73; S.S.A. AND RESEARCH ASSISTANT, INDIAN INSTITUTE GEOMAGNETISM, BOMBAY, 1973-82; SCIENTIST B, N.G.R.I. 1982-87; SCIENTIST C, N.G.R.I. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : RESEARCH AND EXPLORATION; OCEAN ACOUSTIC TOMOGRAPHY.

LANGUAGES : HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 32, ARTICLES - 1, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., SURVEY OF NATURAL RESOURCES & COMPUTER PROCESSING, INVERSE METHODS - (18 YEARS).

1481

DR KRISHNA MANI TRIPATHI; (B. JULY 1, 1937),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - B.H.U. '57; M.SC. GEOPHYSICS - B.H.U. '59; PH.D. GEOPHYSICS - LENINGRAD STATE UNIVERSITY, U.S.S.R. '70.

SPECIALIZATIONS : SEISMOLOGY.

EXPERIENCE : LECTURER, B.H.U., 1959; SENIOR GEOPHYSICAL ASSISTANT AND JUNIOR GEOPHYSICIST, O.N.G.C., DEHRA DUN, 1959-65; POOL OFFICER AND LECTURER, B.H.U., 1970-72; SCIENTIST B, N.G.R.I., 1972-77; SCIENTIST C, N.G.R.I. SINCE MAY, 1977.

PRESENT ACTIVITIES : RESEARCH IN DEEP SEISMIC SOUNDING.

LANGUAGES : HINDI, GUJARATI, BENGALI, URDU, ENGLISH, RUSSIAN.

VISITED : U.S.S.R., SWEDEN, W. GERMANY, FRANCE, U.K., POLAND, THE NETHERLANDS, NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3, MONOGRAPH - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. -11, DSS FIELD MGMT. - 7, TEACHING - 3, SURVEY OF NATURAL RESOURCES - 6, SEISMIC FIELD INVESTIGATIONS - 11.

1482

SHRI B UDAYRAJ; (B. DECEMBER 20, 1947),

SCIENTIST C, NATIONAL GEOPHYSCIAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '69; M.SC. GEOLOGY - OSMANIA '74, PH.D. GEOLOGY - OSMANIA '91.

SPECIALIZATIONS : GEOLOGICAL AND STRUCTURAL MAPPING; PETROGRAPHIC STUDIES.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, N.G.R.I., 1969-88; SCIENTIST C, N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : BASIC RESEARCH IN GEOLOGICAL MAPPING AND PETROGRAPHIC STUDIES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 12.

1483

SHRI N VENKATESHWARLU; (B. DECEMBER 20, 1952),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '75.

SPECIALIZATIONS : GROUNDWATER SURVEYS; DEEP SEISMIC SOUNDING.

EXPERIENCE : TECHNICAL ASSISTANT, HARYANA AGRICULTURE DEPARTMENT, CHANDIGARH, 1977-80; S.S.A. AND SCIENTIST B, N.G.R.I. 1980-88; SCIENTIST C, N.G.R.I., SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DEEP SEISMIC SOUNDING PROJECT (OIL EXPLORATION) SURVEYS AND INTERPRETATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 19, RES. PAPERS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NATURAL RESOURCES - 12.

1484

SHRI K YUDHAVEER; (B. OCTOBER 5, 1959),

SCIENTIST C, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.TECH. ELECTRONICS AND COMMUNICATION - HYDERABAD '82; M.TECH. ELECTRONIC AND COMPUTER SCIENCE - I.I.T. MADRAS '84.

SPECIALIZATIONS : SYSTEM SOFTWARE DESIGN AND DEVELOPMENT; COMPUTER SCIENCE; SEISMIC DATA PROCESSING; ELECTRONICS; COMPUTER NETWORKING AND COMMUNICATION; ARTIFICIAL INTELLIGENCE SYSTEMS.

EXPERIENCE : TECHNICAL OFFICER (B), E.C.I.L., 1984-87; SCIENTIST C, N.G.R.I. SINCE JULY, 1987.

PRESENT ACTIVITIES : MANAGEMENT AND MAINTENANCE OF COMPUTER CENTRE.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, DESIGN - 5, COMPUTER PROCESSING - 6, OTHERS - 4.

1485

MRS HABIBA ABBAS; (B. MARCH 17, 1939),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '61; B.ED. - OSMANIA '62.

SPECIALIZATIONS : GEOMAGNETISM.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER A, N.G.R.I. 1964-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : R & D IN GEOMAGNETISM; GEOMAGNETIC OBSERVATORY MAINTENANCE AND DATA PROCESSING.

LANGUAGES : URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 16.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 26.

1486

SHRI MOHD HABEEB AHMED; (B. SEPTEMBER 19, 1949),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - ANDHRA PRADESH '77.

SPECIALIZATIONS : MECHANICAL DESIGN AND DRAFTING.

EXPERIENCE : JR. D'MAN, SR. D'MAN, S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1972-88 TECHNICAL OFFICER (B). N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MECHANICAL DRAFTING, DESIGNING AND ELECTRONIC DRAFTING.

LANGUAGES : URDU, TELUGU, HINDI, ARABIC, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MECHANICAL DRAFTING & DESIGNING - TOTAL 16 YEARS.

1487

SHRI G R ANJANEYULU; (B. FEBRUARY 16, 1942),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '64; P.G. DIPLOMA IN EXPLORATION GEOPHYSICS - OSMANIA '75. QUALIFICATIONS: B.SC. - UDAIPUR '74; M.SC. - PUNE.

SPECIALIZATIONS : GEOPHYSICS; GROUNDWATER HYDROLOGY.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A. AND SCIENTIST A, N.G.R.I., 1964-87; SCIENTIST B, N.G.R.I. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 17.

1488

MISS B ASHALATHA; (B. JULY 10, 1951),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. MATHEMATICS- MADARAS '71; M.SC.(TECH.) GEOPHYSICS - ANDHRA '84.

SPECIALIZATIONS : GEOPHYSICAL INVESTIGATIONS; COMPUTER DATA PROCESSING & SIMULATION; GEOPHYSICAL MODELLING.

EXPERIENCE : J.L.A., J.T.A. AND S.T.A, N.G.R.I., 1976-88; SCIENTIST B, N.G.R.I SINCE APRIL, 1988; (ALSO TRAINING IN GEOPHYSICAL STUDIES IN USSR).

PRESENT ACTIVITIES : GEOPHYSICAL RESEARCH AND MODELLING; MARINE GEOPHYSICAL STUDIES.

LANGUAGES : TELUGU, ENGLISH, HINDI, TAMIL.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, APPLIED RESEARCH - 6.

1489

SHRI G ASHOK BABU; (B. NOVEMBER 15, 1961),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '83; M.SC. (TECH.) ENGINEERING PHYSICS - SRI VENKATESWARA '87.

SPECIALIZATIONS : DIGITAL ELECTRONICS; INSTRUMENTATION.

EXPERIENCE : SCIENTIST B, N.G.R.I. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D, MAINTENANCE OF GEOPHYSICAL INSTRUMENTS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : PROJECT REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2, OPERATION - 1, TESTING - 1, MAINTENANCE - 2.

1490

SHRI T J BANAJI; (B. DECEMBER 18, 1937),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '62; I.C.W.A. '68.

SPECIALIZATIONS : ADVANCED ACCOUNTANCY; COSTING; SALES & PURCHASE.

EXPERIENCE : S.L.A. AND S.T.A., N.G.R.I., 1968-81; TECHNICAL OFFICER (A), N.G.R.I. 1981-86; TECHNICAL OFFICER (B), N.G.R.I. SINCE JULY, 1986.

PRESENT ACTIVITIES : ACCOUNTING, PRODUCTION, SALES AND PURCHASE.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 14, MAINTENANCE - 4. PRODN. - 14, SALES MARKETING - 14.

1491

MRS AFSAR BEGAM; (B. JUNE 12, 1945),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - SHIVAJI '67; B.LIB.SC. - SHIVAJI '79; ASSOCIATESHIP IN DOCUMENTATION AND INFORMATION SCIENCE - DRTC, BANGALORE '83.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : J.L.A., J.D.A., S.D.A. AND TECHNICAL OFFICER A, N.G.R.I., 1969-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION.

LANGUAGES : URDU, HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2; ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 21, LIBRARY MANAGEMENT - 21.

1492

SHRI B DAMODAR; (B. JANUARY 1, 1945),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : L.E.E. ELECTRICAL - ANDHRA PRADESH '66.

SPECIALIZATIONS : ELECTRICAL MAINTENANCE.

EXPERIENCE : SUPERVISOR, HYDERABAD ENGINEERING INDUSTRIES, HYDERABAD, 1968-77; FOREMAN AND TECHNICAL OFFICER (A), N.G.R.I., 1977-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF WATER SUPPLY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 22.

1493

SHRI A M DAYAL; (B. JANUARY 14, 1952),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

SPECIALIZATIONS : VACUUM TECHNOLOGY; GEOCHRONOLOGY; MASS SPECTROMETRY.

EXPERIENCE : GRADUATE TRAINEE, CEERI, 1975-76; SCIENTIFIC ASST., HEAVY WATER PROJECT, 1976-78; SR. TECH. ASST. AND TECHNICAL OFFICER (A), N.G.R.I., 1978-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : GEOCHRONOLOGY; RADIO DATING TECHNIQUES OF DIFFERENT ROCK FORMATIONS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 6, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 12, APP. RES. - 12, TECHNICAL DEV. - 2.

1494

SHRI S D DESHMUKH; (B. DECEMBER 5, 1948),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - MARATHWADA '69.

SPECIALIZATIONS : GROUNDWATER EXPLORATION; HYDROLOGICAL SURVEYS; NATURAL RECHARGE ANALYSIS AND ARTIFICIAL RECHARGE STUDIES.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER A, N.G.R.I., 1974-89; TECHNICAL OFFICER (B), N.G.R.I. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : GEOPHYSICAL AND HYDROLOGICAL INVESTIGATIONS.

LANGUAGES : MARATHI, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 16.

1495

SHRI V Y GIRI; (B. DECEMBER 7, 1945),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : L.E.C.E. ELECTRICAL COMMUNICATION - ANDHRA '68.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION.

EXPERIENCE : ELECTRONIC TECHNICIAN, OSMANIA UNIVERSITY, HYDERABAD, 1969-71; TECHNICAL ASSISTANT, VIKRAM SARABHAI SPACE CENTRE, TRIVANDRUM, 1971-74; S.T.A., N.G.R.I., 1974-79; TECHNICAL OFFICER (A), N.G.R.I. 1979-86; TECHNICAL OFFICER (B), N.G.R.I. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : MAINTENANCE AND FABRICATION OF ELECTRONIC INSTRUMENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 3, CONSTN. - 6, TESTING - 4, MAINTENANCE - 8.

1496

SHRI NABA KUMAR GOGAI; (B. JUNE 1, 1955),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1497

SHRI M A HAKEEM; (B. JUNE 10, 1938),

SCIENTIST B, NATIONAL GEOPHYSCIAL RESEARCH INSTITUTE, HYDERABAD.

1498

MISS ASHA HANSRAJ; (B. AUGUST 8, 1940),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - OSMANIA '66.

SPECIALIZATIONS : PALEOMAGNETISM.

EXPERIENCE : J.S.A., N.P.L., 1968-73; S.S.A. AND SCIENTIST A, N.G.R.I., 1973-81; SCIENTIST B, N.G.R.I. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : RESEARCH IN PALEOMAGNETISM AND MAGNETIC PROPERTIES OF ROCKS.

LANGUAGES : PUNJABI, HINDI, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 18, TESTING - 1.

1499

SHRI G K HODLUR; (B. JANUARY 11, 1951),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - KARANATAKA '84.

SPECIALIZATIONS : GEOPHYSICAL RESISTIVITY SURVEYS; GROUNDWATER RECHARGE STUDIES; REMOTE SENSING DATA INTERPRETATION.

EXPERIENCE : J.L.A, S.L.A. J.T.A. AND S.T.A., N.G.R.I., 1974-91; SCIENTIST B, N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES : R & D IN GROUNDWATER STUDIES.

LANGUAGES : KANNADA, HINDI, ENGLISH, MARATHI, TELUGU.

PUBLICATIONS & PATENTS : TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 5, OPERATION - 10, QUALITY CONTROL - 15, CONSULTANCY - 5.

1500

DR RAMESH KHANNA; (B. JANUARY 11, 1949),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '70; M.SC. MATHEMATICS - OSMANIA '82; PH.D. MATHEMATICS - OSMANIA '87; COMPUTER TRAINING IN FORTRAN.

SPECIALIZATIONS : FLUID DYNAMICS; GEOPHYSICAL DATA PROCESSING.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1972-91; TECHNICAL OFFICER (B), N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES . R & D.

LANGUAGES : PUNJABI, HINDI, URDU, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 18, APPLIED RESEARCH - 18, TEACHING - 4.

1501

SHRI L P KISHORE; (B. NOVEMBER 14, 1951),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD

QUALIFICATIONS : DIPLOMA IN ELECTRONICS ENGINEERING.

EXPERIENCE : J.T.A., S.T.A. AND TECHNICAL OFFICER A, N.G.R.I., 1977-90; TECHNICAL OFFICER (B), N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : OBSERVATIONAL SEISMOLOGY AND INSTRUMENTATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 14.

1502

SHRI R KRISHNAIAH; (B. JULY 1, 1943),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN MINING ENGINEERING - ANDHRA PRADESH '66; MINES FOREMANS CERTIFICATE - ALL INDIA MINING BOARD '71.

SPECIALIZATIONS : DEEP SEISMIC SOUNDING.

EXPERIENCE : J.T.A. AND S.T.A., N.G.R.I., 1972-82; TECHNICAL OFFICER (A), N.G.R.I. 1982-87; TECHNICAL OFFICER (B), N.G.R.I. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : SEISMIC SURVEYS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 18.

1503

MRS A LAXMI KRISHNAN; (B. OCTOBER 23, 1944),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '68; AIC CHEMISTRY - CALCUTTA '87; DIPLOMA COMPUTER MANAGEMENT - AHMEDABAD '83; PG DIPLOMA IN COMPUTER SCIENCE - CMC HYDERABAD '89.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1968-89; TECHNICAL OFFICER (B), N.G.R.I. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : SOFTWARE DEVELOPMENT; COMPUTER PROCESSING.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING & MNGT. - 4, SOFTWARE DEVELOPMENT AND COMPUTER PROCESSING - 9, ADMN. - 2, INFORMATION & PUBLIC RELATIONS - 4.

1504

SHRI V KRISHNAN; (B. OCTOBER 12, 1943),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - RAVISHANKAR '67.

SPECIALIZATIONS : PLANNING, MONITORING AND EVALUATION OF R & D; GEOPHYSICAL SURVEYS ON ELECTRICAL RESISTIVITY.

EXPERIENCE : S.L.A., J.S.A., S.S.A. AND SCIENTIST A, N.G.R.I., 1968-88; SCIENTIST B, N.G.R.I. SINCE FEBRUARY, 1988.

LANGUAGES : TAMIL, ENGLISH, HINDI, TELUGU, MALAYALAM.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, TECHNOLOGY TRANSFER - 1, APP. RES. - 3, R & D MGT. - 15.

1505

DR ANIL KUMAR; (B. SEPTEMBER 18, 1955),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '77; M.SC. GEOLOGY - OSMANIA '79; PH.D. GEOLOGY - OSMANIA '84.

SPECIALIZATIONS : PALEOMAGNETISM; ROCK MAGNETISM; GEOCHRONOLOGY.

EXPERIENCE : RESEARCH FELLOW, N.G.R.I., 1980-87; SCIENTIST A, N.G.R.I. 1987-88; SCIENTIST B, N.G.R.I. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : RESEARCH IN PALEOMAGNETISM AND GEOCHRONOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10.

1506

SHRI M RAVI KUMAR; (B. MAY 31, 1964),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS) - OSMANIA '83; M.SC.(TECH) GEOPHYSICS- OSMANIA '86.

SPECIALIZATIONS : MATHEMATICAL MODELLING; SIGNAL PROCESSING.

EXPERIENCE : J.R.F., N.G.R.I., 1987-88; GEOPHYSICIST, O.N.G.C., JULY-DECEMBER '88; SCIENTIST B, N.G.R.I. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : APPLIED & BASIC RESEARCH IN VLBI AND GLOBAL PLATE MOTION MODELLING.

LANGUAGES : TELUGU, HINDI, GERMAN, ENGLISH.

AWARDS & DISTINCTIONS : A E G GOLD MEDAL, ASSOCIATION OF EXPLORATION GEOPHYSICISTS, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED & BASIC RESEARCH - 4, SURVEY OF NAT RESOURCES - 1.

1507

SHRI AJAY MANGALIK; (B. APRIL 9, 1966),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - LUCKNOW '85; M.TECH. APPLIED GEOPHYSICS - ROORKEE '88.

SPECIALIZATIONS : MATHEMATICAL MODELLING & COMPUTER SIMULATION OF GEOPHYSICAL PROCESS & INVERSION THEORY.

EXPERIENCE : RESEARCH ASSISTANT, N.G.R.I., 1988-89; SCIENTIST B, N.G.R.I. SINCE JUNE, 1989.

PRESENT ACTIVITIES : MODELLING OF THERMOMECHANICAL PROCESSES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ABSTRACT - 3, PROCESSES DEVELOPED - PC AIDS (SOFTWARE PACKAGE).

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH - 2, COMPUTER PROCESSING - 4.

1508

SHRI D MURALIDHARAN; (B. JANUARY 10, 1950),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - KARNATAK '84.

SPECIALIZATIONS : GROUNDWATER EXPLORATION, ASSESSMENT & AUGMENTATION.

EXPERIENCE : GEOLOGICAL EXPLORATION, RWS, TAMIL NADU, 1972-74; S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I. 1974-89; TECHNICAL OFFICER (B), N.G.R.I. SINCE MARCH, 1989.

PRESENT ACTIVITIES : GROUNDWATER EXPLORATION, ASSESSMENT AND DEVELOPMENT OF METHODOLOGY FOR ARTIFICIAL RECHARGE IN HARD ROCKS.

LANGUAGES : TAMIL, TELUGU, HINDI AND ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, SURVEY OF NATURAL RESOURCES - 16.

1509

SHRI A SATYANARAYANA MURTHY; (B. FEBRUARY 13, 1951),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - J.N.T.U. '87.

SPECIALIZATIONS : FIBER OPTICS; OPTICAL DATA PROCESSING; SEISMIC PROSPECTING.

EXPERIENCE : LAB ASSISTANT, J.T.A. AND S.T.A., N.G.R.I., 1977-91; SCIENTIST B, N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES : SEISMIC PROCESSING; DEEP SEISMIC SOUNDING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2 YEARS.

1510

SHRI N N MURTHY; (B. NOVEMBER 14, 1951),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOLOGY - OSMANIA '88.

SPECIALIZATIONS : GEOCHEMISTRY.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., N.G.R.I., 1974-91; SCIENTIST B, N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES : GEOCHEMISTRY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH.

1511

SHRI M JAYA PRAKASH NARAYANA; (B. APRIL 15, 1946),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '67; M.SC. MATHEMATICS - SAGAR '71.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A., N.G.R.I., 1973-85; SCIENTIST B, N.G.R.I. SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : R & D IN COMPUTER PROGRAMMING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 15.

1512

SHRI K SURYA PRAKASAM; (B. FEBRUARY 24, 1952),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1513

SHRI M A RAHMAN; (B. JANUARY 14, 1942),

ASSISTANT EXECUTIVE ENGINEER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : OVERSEER'S CERTIFICATE IN MATERIAL INVESTIGATION SURVEY - OSMANIA '59.

EXPERIENCE : MISTRY WORK CHARGE, IICT, 1962-67; MISTRY WORK CHARGE, MISTRY REGULAR, JUNIOR ENGINEER AND ASST. ENGINEER, N.G.R.I., 1967-88; ASST EXE ENGINEER (B), N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : BUILDING CONSTRUCTION AND MAINTENANCE.

LANGUAGES : URDU, ENGLISH, TELUGU, TAMIL.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 32, MAINTENANCE - 32.

1514

SHRI S RAJU; (B. MAY 24, 1958),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - ANNAMALAI '84; M.PHIL. SCIENTIFIC INSTRUMENTATION - MADRAS '87.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; GEOPHYSICAL SEISMIC EXPLORATION.

EXPERIENCE : S.L.A., J.L.A. AND S.T.A., N.G.R.I., 1980-89; SCIENTIST B, N.G.R.I. SINCE APRIL, 1989.

PRESENT ACTIVITIES : GEOPHYSICAL EXPLORATION (SEISMIC).

LANGUAGES : TAMIL, ENGLISH, HINDI, TELUGU.

PUBLICATIONS & PATENTS : RES.PAPERS - 1, TECH. REPORTS - 3, ABSTRACT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4. OPERATION - 2, MAINTENANCE - 7.

1515

SHRI B RAMAKRISHNA; (B. DECEMBER 3, 1942),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1968-87; TECHNICAL OFFICER (B). N.G.R.I. SINCE DECEMBER, 1987.

1516

SHRI Y M RAMCHANDRA; (B. JANUARY 12, 1944),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1517

MRS M KUSUMA RANGANATH; (B. APRIL 25, 1938),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '61; DIP. IN JOURNALISM - B.V. BHAWAN '72.

SPECIALIZATIONS : INFORMATION DISSEMINATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I. 1966-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : COMPILATION OF DATABASE INFORMATION AND DISSEMINATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TOTAL - 24

1518

SHRI M JAYARAMA RAO; (B. APRIL 8, 1942),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP CIVIL - GOVT. POLYTECHNIC, HYDERABAD '61.

SPECIALIZATIONS : CARTOGRAPHY; CIVIL ENGINEERING DRAWINGS.

EXPERIENCE : JUNIOR DRAFTSMAN, SENIOR DRAFTSMAN, S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I. 1965-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE JUNE, 1988.

PRESENT ACTIVITIES : CARTOGRAPHY OF MAPS & DRAWINGS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, TECHNICAL DEV. - 12, PLANNING - 15, COMPUTER PROCESSING - 4, MAINTENANCE - 22, R & D MGT. - 22, IND. MGT. - 15, ADMINISTRATION - 4.

1519

SHRI M RANGA RAO; (B. MAY 12, 1946),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. GEOLOGY - OSMANIA '69;

SPECIALIZATIONS : INFORMATION DISSEMINATION; PUBLIC RELATIONS; PUBLICATION.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1969-89; TECHNICAL OFFICER (B), N.G.R.I. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : INFORMATION, PUBLIC RELATIONS AND PUBLICATION.

LANGUAGES : ENGLISH, TELUGU, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : INFORMATION AND PUBLICATION - 21.

1520

SHRI MADHUSUDANA RAO; (B. JUNE 5, 1945),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1521

SHRI N PURNACHANDRA RAO; (B. SEPTEMBER 25, 1963),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. GEOPHYSICS - OSMANIA '86.

SPECIALIZATIONS : NUMERICAL MODELLING OF PLATE TECTONICS; GEOPHYSICAL SIGNAL ANALYSIS.

EXPERIENCE : J.R.F., OSMANIA, 1987; J.R.F., N.G.R.I., 1987-89; SCIENTIST B, N.G.R.I. SINCE APRIL, 1989; (ALSO TRAINING IN SEISMIC SIGNAL ANALYSIS IN USSR - 1989).

PRESENT ACTIVITIES : BASIC & APPLIED RESEARCH.

LANGUAGES : TELUGU, ENGLISH, HINDI, FRENCH, RUSSIAN, GERMAN.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4, APPLIED RESEARCH - 4.

1522

DR D VENKAT REDDY; (B. SEPTEMBER 10, 1957),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. HYDROGEOLOGY - OSMANIA '80; P.G. DIPLOMA CARTOGRAPHY - OSMANIA '80; PH.D. GROUNDWATER HYDROLOGY - OSMANIA '86; ADVANCED DIPLOMA ENG. GEOLOGY & HYDROGEOLOGY - TUBINGEN, W.GERMANY '89;

SPECIALIZATIONS : HYDROGEOLOGY; ENGINEERING GEOLOGY.

EXPERIENCE : SCIENTIST B, N.G.R.I. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : HYDROGEOLOGY.

LANGUAGES : TELUGU, ENGLISH, HINDI, GERMAN.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS -12, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH - 10, SURVEY OF NAT. RESOURCES -10

1523

SHRI G L N REDDY; (B. AUGUST 3, 1945),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC. MINERAL EXPLORATION - GULBARGA '83.

SPECIALIZATIONS : EXPLORATION OF RADIO ACTIVE MINERALS.

EXPERIENCE : J.L.A., S.L.A. AND J.T.A., N.G.R.I., 1973-85; SCIENTIFIC OFFICER ATOMIC MINERAL DIVISION, D.A.E., 1985-87; SCIENTIST B, N.G.R.I. SINCE MARCH, 1991.

1524

SHRI K SARATCHANDRA; (B. OCTOBER 15, 1946),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - NAGPUR '68.

SPECIALIZATIONS : MAINTENANCE AND OPERATION OF GEOMAGNETIC OBSERVATORIES & TELLURIC FIELD STATIONS; CONVENTIONAL DATA PROCESSING.

EXPERIENCE : J.L.A., S.L.A, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1970-88; TECHNICAL OFFICER (B), N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : OPERATION & MAINTENANCE; COMPUTER PROCESSING & TESTING.

LANGUAGES : TELUGU, ENGLISH, HINDI, TAMIL.

AWARDS & DISTINCTIONS : BEST EXPOSITION AWARD (ROTATING SHIELD), NGRI, 1992.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 22, TESTING - 22, MAINTENANCE - 22, COMPUTER PROC. - 22.

1525

SHRI C S P SARMA; (B. JANUARY 30, 1951),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '71; M.SC. PHYSICS-MEERUT '84.

SPECIALIZATIONS : SEISMOLOGY; RESERVOIR INDUCED SEISMICITY.

EXPERIENCE : J.L.A., S.L.A., TECH. ASST. (III) (1), TECH. ASST.(III) (2), AND TECHNICAL OFFICER (A), N.G.R.I., 1972-91; SCIENTIST B, N.G.R.I. SINCE MARCH, 1991.(ALSO TRAINING ON SEISMOLOGY IN GDR ON U.S.S.R.).

PRESENT ACTIVITIES : BASIC AND APPLIED RESEARCH IN RESERVOIR INDUCED SEISMICITY.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : E. GERMANY, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 5, OPERATION - 15.

1526

SHRI M V CHALAPATHI SARMA; (B. JUNE 4, 1946),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '84.

SPECIALIZATIONS : ELECTRONICS; OPERATION AND MAINTENANCE OF MICROPULSATION OBSERVATORY; INSTRUMENTATION; PULSATION STUDIES.

EXPERIENCE : S.L.A., J.T.A., S.T.A., AND TECHNICAL OFFICER (A), N.G.R.I., 1976- 91; TECHNICAL OFFICER (B), N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES : INSTRUMENTATION, OPERATION AND MAINTENANCE OF MICROPULSATION OBSERVATORY.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION-20, TESTING-5, MAINTENANCE - 5.

1527

DR SUBRATA DAS SARMA; (B. FEBRUARY 9, 1956),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - GAUHATI '79; M.PHIL. INSTRUMENTATION - ROORKEE '81; PH.D. PHYSICS - ROORKEE '87.

SPECIALIZATIONS : INSTRUMENTATION; MAGNETIC PROPERTIES OF SPINELS

EXPERIENCE : FELLOW, N.G.R.I., 1988-89; SCIENTIST B. N.G.R.I. SINCE APRIL, 1989

1528

SHRI V Y N SARMA; (B. FEBRUARY 12, 1945),

SCIENTIST B. NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : B.SC. - ANDHRA '65.

SPECIALIZATIONS : DATA PROCESSING.

EXPERIENCE : J.L.A., S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER (A), N.G.R.I., 1967-90; TECHNICAL OFFICER (B), N.G.R.I. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : DEEP SEISMIC STUDIES.

LANGUAGES : TELUGU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DSS DATA PROCESSING - 21.

1529

SHRI H V S SATYANARAYANA; (B. AUGUST 15, 1967),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.TECH. ELECTRONICS & COMMUNICATIONS - NAGARJUNA '88;

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; COMMUNICATION ENGINEERING.

EXPERIENCE : SCIENTIST B, N.G.R.I. SINCE JUNE, 1989.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF GEOPHYSICAL INSTRUMENTS.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : DEVELOPMENT - 2.

1530

SHRI G RAMA SESHAGIRI; (B. DECEMBER 27, 1960),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1531

SHRI ANAND PRAKASH SINGH; (B. APRIL 20, 1962),

SCIENTIST B. NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - B.H.U. '81; M.SC.(TECH.) EXPLORATION GEOPHYSICS - B.H.U. '84;

SPECIALIZATIONS : POTENTIAL FIELD SURVEYS & INTERPRETATION.

EXPERIENCE : J.R.F. AND S.R.F., N.G.R.I., 1987-89; SCIENTIST B. N.G.R.I. SINCE APRIL, 1989.

PRESENT ACTIVITIES : RESEARH.

LANGUAGES : HINDI, ENGLISH, SANSKRIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4, APPLIED RESEARCH - 4, SURVEY OF NAT. RESOURCES - 2, COMPUTER PROCESSING - 4.

1532

SHRI V K SOMVANSHI; (B. JULY 2, 1959),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS (ELECTRONICS) - MARATHWADA '81; M.TECH. COMPUTER SCIENCE - J.N.T.U.

EXPERIENCE : LECTURER, MAHARASHTRA ENGINEERING COLLEGE, NILANGA 1982-89; RESEARCH ASSOCIATE, I.I.SC. BANGLORE, 1989-90; SCIENTIST B, N.G.R.I. SINCE OCTOBER, 1990.

1533

SHRI A R SRIDHAR; (B. SEPTEMBER 10, 1948),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : PG DIPLOMA IN EXPLORTATION GEOPHYSICS - OSMANIA '76; M.SC. PHYSICS - MEERUT '84.

SPECIALIZATIONS : SEISMOLOGY; DEEP SEISMIC STUDIES.

EXPERIENCE : J.L.A., J.T.A., S.T.A. AND TECHINCAL OFFICER (A), N.G.R.I., 1972-91; TECHNICAL OFFICER (B), N.G.R.I. SINCE MARCH, 1991.

PRESENT ACTIVITIES : DEEP SEISMIC STUDIES; DATA PROCESSING.

LANGUAGES : TAMIL, TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DSS - 16.

1534

SHRI D SRINAGESH; (B. AUGUST 28, 1961),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. APPIED MATHEMATICS - KAKATIYA '84.

SPECIALIZATIONS : SEISMOLOGY; TOMOGRAPHY; INVERSE THEORY.

EXPERIENCE : J.R.F. AND S.R.F., N.G.R.I., 1985-88; SCIENTIST B, N.G.R.I. SINCE SINCE NOVEMBER, 1988. (ALSO TRAINING IN GEOTOMOGRAPHY TECHNIQUES IN U.S.S.R. IN 1989).

PRESENT ACTIVITIES : R & D IN GEOTOMOGRAPHY AND SEISMOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.R.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 5.

1535

MISS KIRTI SRIVASTAVA; (B. JANUARY 8, 1962),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '84; M.SC. APPLIED STATISTICS - OSMANIA '84.

SPECIALIZATIONS : STATISTICAL GEOPHYSICS; GEOPHYSICAL SIGNAL PROCESSING.

EXPERIENCE : SCIENTIST B, N.G.R.I. SINCE MARCH, 1989.

PRESENT ACTIVITIES : GEOPHYSICAL DATA PROCESSING AND INTERPRETATION OF SEISMIC DATA; MARINE GEOPHYSICS.

LANGUAGES : HINDI, ENGLISH, TELUGU.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 6.

1536

SHRI S VENTKATRAMANA; (B. AUGUST 1, 1943),

SCIENTIST B, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1537

SHRI P J VIJAYANANDAM; (B. JANUARY 13, 1937),

TECHNICAL OFFICER (B), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN DRAWING AND PAINTING - K.S.E.E. KARNATAKA '84.

SPECIALIZATIONS : DRAFTING OF SCIENTIFIC DRAWINGS.

EXPERIENCE : JUNIOR DRAFTSMAN, SENIOR DRAFTSMAN, JUNIOR TECHNICAL ASSTT., SENIOR TECHNICAL ASSISTANT AND TECHNICAL OFFICER (A), N.G.R.I., 1965-87; TECHNICAL OFFICER (B), N.G.R.I. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : DRAFTING OF SCIENTIFIC DRAWINGS FOR REPORTS, PUBLICATIONS AND ART WORK.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : DRAFTING OF SCIENTIFIC DRAWINGS - 25.

1538

SHRI P ANJAIAH; (B. OCTOBER 23, 1941),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : HIGH SCHOOL - HYDERABAD '63;

EXPERIENCE : ADMINISTRATION, J.T.A. AND S.T.A, N.G.R.I., 1962-90; TECHNICAL OFFICER (A), N.G.R.I. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : CIVIL ENGINEERING WORKS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

1539

SHRI M D GHOUSUZZAMAN; (B. JANUARY 26, 1948),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1540

SHRI T JANARDHAN; (B. OCTOBER 1, 1944),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : H.S.C. - OSMANIA '62; MINE FOREMAN'S CERTIFICATES.

SPECIALIZATIONS : EXPLOSIVES HANDLING; BLASTING FOR SEISMIC RECORDING.

EXPERIENCE : J.T.A. AND S.T.A., N.G.R.I., 1977-87; TECHNICAL OFFICER (A), N.G.R.I. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : HANDLING OF HIGH EXPLOSIVES; BLASTING FOR SEISMIC RECORDING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EXPLOSIVES HANDLING - 16.

1541

SHRI G L KHANDEKAR; (B. AUGUST 15, 1944),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : B.SC. - OSMANIA '71.

SPECIALIZATIONS : CONTROLLED SOURCE SEISMOLOGY.

EXPERIENCE : J.L.A., J.T.A. AND S.T.A., N.G.R.I., 1972-90; TECHNICAL OFFICER (A) N.G.R.I. SINCE JANUARY, 1990.

PRESENT ACTIVITIES : CONTROLLED SOURCE SEISMOLOGY.

LANGUAGES : ENGLISH, MARATHI, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : SOURCE OF NAT. RES. - 21.

1542

SHRI G LAXMAN; (B. APRIL 6, 1952),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1543

SHRI C MANOHAR; (B. DECEMBER 25, 1940),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN DRAUGHTSMANSHIP (MECH. WORKING) - GOVT. ITC POLYTECHNIC GULBARGE '59.

SPECIALIZATIONS : CARTOGRAPHY; MAPS & DRAWINGS.

EXPERIENCE : DRAUGHTSMAN, SENIOR DRAUGHTSMAN AND S.T.A., N.G.R.I., 1963-88; TECHNICAL OFFICER (A), N.G.R.I. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CARTOGRAPHY, MAPS & DRAWING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. ASSISTANCE - 30, REPROGRAPHY & CARTOGRAPHY - 30.

1544

SHRI S P PANIGRAHI; (B. DECEMBER 19, 1954),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : SENIOR SURVEYORS EXAMINATION IN LAND SURVEY - SURVEY EDUCATION ADVISORY BOARD (W.B) '75.

EXPERIENCE : J.T.A. AND S.T.A., N.G.R.I., 1976-86; TECHNICAL OFFICER (A), N.G.R.I. SINCE AUGUST, 1986.

LANGUAGES : BENGALI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION OF SURVEY EQUIPMENTS - 16, SURVEY OF NAT.RES. - 16.

1545

SHRI K P PANTULU; (B. JUNE 24, 1947),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. MATHS - RAIPUR '72.

SPECIALIZATIONS : MATHEMATICS; COMPUTER SOFTWARE.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., N.G.R.I., 1976-89; SCIENTIST A, N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : IMPLEMENTATION AND DEVELOPMENT OF SOFTWARE; COMPUTER MODELLING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 17, TEACHING - 5, COMPUTER PROCESSING - 10.

1546

SHRI BIR PAL SINGH RANA; (B. JULY 3, 1953),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : CERTIFICATE IN DRAFTSMANSHIP - ALIGRAH MUSLIM UNIV. '74.

SPECIALIZATIONS : CARTOGRAPHY; MAPS & DRAWINGS.

EXPERIENCE : TECH. ASST. AND S.T.A., N.G.R.I., 1980-90; TECHNICAL OFFICER (A), N.G.R.I. SINCE MARCH, 1990.

PRESENT ACTIVITIES : CARTOGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CARTOGRAPHY - 10.

1547

SHRI G SURYAPRAKASA RAO; (B. NOVEMBER 14, 1957),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1548

SHRI P PRASADA RAO; (B. DECEMBER 20, 1956),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. MARINE GEOPHYSICS - ANDHRA '80, CERTIFICATE COMPUTER PROGRAMMING - ANNAMALAI '86.

SPECIALIZATIONS : MARINE GEOPHYSICS; SEISMICITY; EXPLOSION SEISMOLOGY.

EXPERIENCE : SENIOR COMPUTATION ASST. AND S.T.A., N.G.R.I., 1982-88; SCIENTIST A, N.G.R.I. SINCE OCTOBER, 1988.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 8, COMPUTER PROC. - 2.

1549

SHRI T G RAO; (B. JANUARY 26, 1950),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1550

SHRI R PEDDY REDDY; (B. JUNE 2, 1949),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : CERTIFICATE IN MINING MATE BLASTING (MINING) - DGMS, DHANBAD.

SPECIALIZATIONS : EXPLOSION SEISMOLOGY.

EXPERIENCE : H.T.D., TECHNICIAN (EXPLOSIVE), TECHNICAL ASSISTANT AND S.T.A., N.G.R.I., 1977-90; TECHNICAL OFFICER (A), N.G.R.I. SINCE MARCH, 1990.

PRESENT ACTIVITIES : CSS SURVEY.

LANGUAGES : TELUGU, ENGLISH, HINDI, TAMIL, MALAYALAM.

AWARDS & DISTINCTIONS : RAKSHA MEDAL, MINISTRY OF DEFENCE, 1970, 1972.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 18, FIELD DUTY.

1551

SHRI V JANARDHANA REDDY; (B. JULY 1, 1955),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN AUTOMOBILE- I.A.F.'84; GRADUATION CERTIFICATE AWARDED BY I.A.F.

EXPERIENCE : A.C. TO SERGEANT, INDIAN AIRFORCE, 1975-91; TECHNICAL OFFICER (A), N.G.R.I. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : TRANSPORT MAINTENENCE AND OPERATION.

LANGUAGES : TELUGU, ENGLISH, HINDI, TAMIL, MALAYALAM.

PROFESSIONAL EXPERIENCE(IN YEARS) : PILOT PLANT - 2, MAINTENANCE - 17, EXTENSION - 2.

1552

SHRI G BALAKRISHNA SARMA; (B. APRIL 22, 1946),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSCIAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : I.T.I. MOTOR-MECH.DIESEL - MALLEPALLY, HYDERABAD '70.

SPECIALIZATIONS : MAINTENANCE AND REPAIR OF DIESEL VEHICLES.

EXPERIENCE : FINE MECHANIC, FOREMAN AND S.T.A., N.G.R.I., 1977-87; TECHNICAL OFFICER (A), N.G.R.I. SINCE MARCH, 1987.

PRESENT ACTIVITIES : MAINTENANCE OF VEHICLES.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 26.

1553

SHRI M SURYA NARAYANA SARMA; (B. SEPTEMBER 11, 1946),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : M.SC. PHYSICS - MEERUT '84.

SPECIALIZATIONS : MAGNETIC AND TELLURIC FIELD SURVEY; COMPUTER OPERATIONS; RESISTIVITY DATA PROCESSING; COMPUTER SOFTWARE.

EXPERIENCE : J.L.A., S.L.A., J.T.A. AND S.T.A., N.G.R.I., 1973-90; TECHNICAL OFFICER (A), N.G.R.I. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : COMPUTER OPERATION.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES.PAPERS - 1, TECH. REPROTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 20, OPERATIONS - 3, SURVEY OF NAT. RES. - 20, MAINTENANCE - 1, COMPUTER PROCESSING - 5.

1554

SHRI SUBHAS SAXENA; (B. JUNE 18, 1948),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1555

SHRI C SHANKAR; (B. JULY 30, 1947),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1556

SHRI M SHANKARAIAH; (B. APRIL 10, 1951),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : DIPLOMA IN DRAWING AND PAINTING - KARNATAK '78; P G DIPLOMA IN CARTOGRAPHY - OSMANIA '81; B.A. - OSMANIA '83.

SPECIALIZATIONS : GEOGRAPHICAL MAPPING & DRAWING.

EXPERIENCE : ASSISTANT COMPILER, DRAUGHTSMAN, DIRCTOR OF CENSUS OPERATION, A.P., 1971-74, JUNIOR DRAUGHTSMAN, TECHNICAL ASSISTANT, N.G.R.I., 1980-90; TECHNICAL OFFICER (A), N.G.R.I. SINCE MARCH, 1990.(ALSO ASST. CARTOGRAPHER, ICRISAT 1984-86).

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - CARTOGRAPHY (MAP DRAWING).

1557

SHRI V SUBRAMANYAM; (B. JULY 16, 1947),

SCIENTIST A, NATIONAL GEOPHYSICAL RESEARCH INSTITUTE, HYDERABAD.

1558

SHRI G L N SWAMY; (B. APRIL 16, 1939),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSCIAL RESEARCH INSTITUTE, HYDERABAD.

QUALIFICATIONS : CERTIFICATE (CARPENTRY) - I.T.I., MALLEPALLI '55, I.T.I. - (PATTERN MAKER) VISAKHAPATNAM '65; I.T.I. (FITTER) - MALLEPALLI '67.

SPECIALIZATIONS : GEOPHYSICAL INSTRUMENTATION.

EXPERIENCE : ASST. SHOP INSTRUCTOR, CARPENTER/MACHINIST, PREC.MECH., J.T.A., AND S.T.A., N.G.R.I., 1958-87; TECHNICAL OFFICER A, N.G.R.I. SINCE JANUARY, 1987.

1559

SHRI K VEERASWAMY; (B. OCTOBER 23, 1957),

TECHNICAL OFFICER (A), NATIONAL GEOPHYSICAL RESEARCH INSTITUTE. HYDERABAD.

QUALIFICATIONS : M.SC.(TECH) GEOPHYSICS - ANDHRA '80.

SPECIALIZATIONS : NUMERICAL MODELLING; MAGNETOTELLURICS; AEROMAGNETICS; EM DEPTH SOUNDING.

EXPERIENCE : TECHNICAL ASSISTANT AND S.T.A., N.G.R.I., 1986-89; TECHNICAL OFFICER (A), N.G.R.I. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : BASIC AND APPLIED RESEARCH IN NUMERICAL MODELLING OF E M INDUCTION.

LANGUAGES : TELUGU, HINDI. ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, APPLIED RESEARCH - 6.

NATIONAL INSTITUTE OF OCEANOGRAPHY

1560

DR BALLON E DESA; (B. FEBRUARY 16, 1947),

DIRECTOR, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B. ENGG. ELECTRONICS - UNIV. OF SHEFFIELD, U.K. '69; PH.D. MICROWAVES - UNIV. OF SHEFFIELD, U.K. '72.

SPECIALIZATIONS : ELECTRONICS; MARINE INSTRUMENTATION.

EXPERIENCE : MICROWAVE ENGINEER, POSTS & TELECOMMUNICATION MINISTRY, LIBYA, 1973; POOL OFFICER (CSIR), SCIENTIST B, SCIENTIST C, SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, N.I.O., 1973-94; DIRECTOR, N.I.O. SINCE APRIL 1994.

PRESENT ACTIVITIES : DESIGN AND DEVELOPMENT OF INSTRUMENTS; MANAGING COMPUTER CENTRE.

LANGUAGES : KONKANI, BENGALI, HINDI, ENGLISH.

VISITED : U.S.A., U.K., ITALY, DENMARK, GERMANY. MAURITIUS, AUSTRALIA, JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 12, CONFERENCE PUBLICATIONS - 13, PATENT - 1.

AWARDS & DISTINCTIONS : PARTICIPATED IN THE FIRST INDIAN EXPEDITION TO ANTARTICA TO SET UP ANTARTIC WEATHER STATION.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, DESIGN - 11.

1561

SHRI R R NAIR; (B. APRIL 15, 1937),

SCIENTIST F, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - GUJARAT '59; M.SC. GEOLOGY - ANDHRA '61.

SPECIALIZATIONS : GEOLOGICAL OCEANOGRAPHY; SEDIMENTOLOGY; X-RAY DIFFRACTOMETRY; PALAEOCEANOGRAPHY.

EXPERIENCE : WORKED AT M.I.T., U.S.A., 1962-64; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, N.I.O., 1968-91; SCIENTIST F, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH AND COORDINATING THE PROJECTS: POLYMETALLIC NODULES & INDO-FRG COLLABORATIVE PROGRAMME ON QUATERNARY UPWELLING & MONSOON RELATED PROCESSES IN SEAS AROUND INDIA.

LANGUAGES : MALAYALAM, ENGLISH, FRENCH.

VISITED : U.K., U.S.A., SWITZERLAND, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 48, TECH. REPORTS - 1, BOOKS EDITED - 1, BOOK REVIEW - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21.

1562

DR B U NAYAK; (B. JUNE 12, 1939),

SCIENTIST F, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL - KARNATAK '61; M.E. SOIL MECHANICS AND FOUNDATION ENGINEERING - I.I.S.C., BANGALORE '64; M.S. OCEAN ENGINEERING - UNIV. OF HAWAII, U.S.A. '71; PH.D. OCEAN ENGINEERING - UNIVERSITY OF HAWAII, U.S.A. '76.

SPECIALIZATIONS : OCEAN ENGINEERING; GEOTECHNICAL ENGINEERING; CIVIL ENGINEERING.

EXPERIENCE : LECTURER AND READER IN CIVIL ENGINEERING, MANIPAL ENGINEERING COLLEGE, 1961-69; RESEARCH ASSISTANT, UNIVERSITY OF HAWAII, U.S.A., 1970; COASTAL ENGINEER, KOEBIG & KOEBIG INC., U.S.A., 1971; RESEARCH ASSISTANT AND JUNIOR RESEARCHER, UNIVERSITY OF HAWAII, 1971-73; PROFESSIONAL TRAINING AND EDUCATIONAL TOUR OF U.S.A., EUROPE AND ASIA, 1973-74; VISITING ASSISTANT PROFESSOR, UNIVERSITY OF BRITISH COLUMBIA, CANADA, 1975-76; ENGINEER EI AND SCIENTIST EII, N.I.O., 1976-87; SCIENTIST F, N.I.O. SINCE JUNE, 1987.

PRESENT ACTIVITIES : R & D AND RESEARCH MANAGEMENT IN COASTAL AND OFFSHORE ENGINEERING; RESEARCH & CONSULTANCY IN COASTAL ENGINEERING PROBLEMS RELATED TO HARBOUR DEVELOPMENT; DISPOSAL OF EFFLUENTS AND CONTROL OF COASTAL EROSION; ENVIRONMENTAL DATA COLLECTION AND EVALUATION FOR OCEAN ENGINEERING PROJECTS.

LANGUAGES : KONKANI, KANNADA, HINDI, ENGLISH, GERMAN.

VISITED : U.S.A., U.K., DENMARK, NETHERLANDS, THAILAND, SINGAPORE, HONGKONG, JAPAN, CANADA, NORWAY, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 12, SCIENTIFIC BOOKS - 1, BOOK REVIEWS - 1, ABSTRACTS - 10.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF ENGINEERS (INDIA), 1981.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, DESIGN - 6, TECH. DEV. - 6, CONSULTANCY - 10, R & D MGMT. -12, CONSTN. - 2, OPERATION - 6, TEACHING - 9, PLANNING - 6, TECHNOLOGY TRANSFER - 6, ADMN - 6, EDITING - 3, DOCUMENTATION - 10, COMPUTER PROCESSING - 10.

1563

SHRI R M S BHARGAVA; (B. MARCH 20, 1935),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - RAJASTHAN '55; M.SC. ZOOLOGY - RAJASTHAN '57.

SPECIALIZATIONS : FISH AND FISHERIES; PRIMARY PRODUCTIVITY; DATA PROCESSING; INFORMATION DISSEMINATION AND PUBLICATION.

EXPERIENCE : FISHERIES RESEARCH INVESTIGATOR, MINISTRY OF FOOD AND AGRICULTURE, NEW DELHI, 1959-61; RESEARCH ASSISTANT, CENTRAL INLAND FISHERIES RESEARCH INSTITUTE, CUTTACK, 1961-63; S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, I.I.O.E./N.I.O., 1963-89; SCIENTIST EII, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : DATA AND INFORMATION MANAGEMENT; DATA PROCESSING.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE, U.K., GERMANY, U.S.A., ITALY, SWITZERLAND AND MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH. REPORTS - 1, ARTICLES - 12.

AWARDS & DISTINCTIONS : EDITOR, N I O NEWSLETTER; MANAGING EDITOR, MAHASAGAR RESEARCH JOURNAL OF N I O.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, R & D MGMT. -10, TEACHING - 2, SURVERY OF NATURAL RESOURCES - 6, TECHNO-ECONOMIC SURVEYS - 1, PLANNING - 6, EDITING - 15.

1564

DR V P DEVASSY; (B. MARCH 20, 1937),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '59; M.SC. ZOOLOGY AND FISHERIES - AGRA '61; PH.D. PLANKTON ECOLOGY - KERALA '85.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : SENIOR RESEARCH SCHOLAR, CENTRAL INLAND FISHERIES RESEARCH INSTITUTE, ALLAHABAD, 1962-65; S.R.F., S.S.A., SCIENTIST B, SCIENTIST C, AND SCIENTIST EI, N.I.O., 1966-89; SCIENTIST EII, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : FRANCE, AUSTRALIA, JAPAN, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 48, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., CONSULTANCY, R & D MANAGEMENT, SURVEY OF NATURAL RESOURCES AND TECHNOLOGY TRANSFER - (TOTAL : 28 YEARS).

1565

DR S C GOSWAMI; (B. NOVEMBER 8, 1940),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - PUNJAB '62; M.SC. ZOOLOGY - PUNJAB '64; PH.D. OCEANOGRAPHY - PUNJAB '81.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHIC RESOURCE SURVEY; ZOOPLANKTON; ECOLOGY AND CULTURE; FISHERIES.

EXPERIENCE : J.R.F. AND S.R.F., N.I.O., 1967-70; RESEARCH FELLOW, I.N.S.A., 1971; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1972-90; SCIENTIST EII, N.I.O. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY, ZOOPLANKTON STUDIES AND AQUACULTURE.

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : MALAYSIA, NETHERLANDS, FRANCE, JAPAN, GERMANY, PORTUGAL, ICELAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 75, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES., APP. RES., PRODUCTION, TEACHING, SURVEY OF NATURAL RESOURCES, TECHNOLOGY TRANSFER AND ADMN. - (TOTAL : 20 YEARS).

1566

DR C S MURTY; (B. JULY 15, 1939),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC.(TECH.) METEOROLOGY & OCEANOGRAPHY - ANDHRA '62; PH.D. PHYSICAL OCEANOGRAPHY - KERALA '78.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : S.S.A., N.G.R.I., 1963-64; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1964-86; SCIENTIST EII, N.I.O. SINCE APRIL, 1986.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : NETHERLANDS, ITALY, MALAYSIA, CEYLON, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 20, BOOK REVIEWS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 27, CONSULTANCY - 4, TEACHING - 1.

1567

SHRI M RAVINDRANATH NAYAK; (B. DECEMBER 2, 1947),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MYSORE '68; M.SC. PHYSICS AND ELECTRONICS - MYSORE '71.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : J.R.F. AND S.S.A., N.A.L., 1972-76; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1976-90; SCIENTIST EII, N.I.O. SINCE MAY, 1990.

PRESENT ACTIVITIES : R & D IN MARINE ELECTRONICS/INSTRUMENTATION.

LANGUAGES : KONKANI, KANNADA, SANSKRIT, HINDI, ENGLISH.

VISITED : MAURITIUS, ANTARCTICA, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, ARTICLES - 7, PATENTS - 1

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, INDIA; MEMBER, EDITORIAL BOARD OF "J OF COASTAL RESEARCH" (USA); MEMBER, IEEE TECHNICAL CONSULTATIVE COMMITTEE ON STANDARDS (USA).

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, COMPUTER PROCESSING - 3.

1568

DR A H PARULEKAR; (B. MAY 6, 1936),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '56; M.SC. ZOOLOGY - BOMBAY '59; PH.D. ZOOLOGY - BOMBAY '64.

SPECIALIZATIONS : MARINE BIOLOGY; BIOLOGICAL OCEANOGRAPHY; AQUACULTURE; ANTARCTIC BIOLOGY.

EXPERIENCE : DEMONSTRATOR AND LECTURER, KIRTI COLLEGE, BOMBAY, 1958-60; RESEARCH SCHOLAR, MINISTRY OF EDUCATION, 1962-64; POST-DOCTORAL RESEARCH FELLOW, U.G.C. AND C.S.I.R, 1964-68; RESEARCH ASSOCIATE, I.N.S.A., NEW DELHI, 1969-72; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O, 1972-87; (ALSO HIGHER RESEARCH IN MARINE BIOLOGY, U.K., 1975-76); SCIENTIST EII, N.I.O. SINCE APRIL, 1987.

PRESENT ACTIVITIES : R & D IN MARINE BIOLOGY.

LANGUAGES : MARATHI, HINDI, GUJARATI, ENGLISH, FRENCH.

VISITED : U.K., U.A.R., MALTA, ANTARCTICA, U.S.A., CANADA, MAURITIUS, MALAYSIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 132, TECH. REPORTS - 54, ARTICLES - 72, BOOK REVIEWS - 14.

AWARDS & DISTINCTIONS : FELLOW, MAHARASHTRA ACADEMY OF SCIENCES, 1981; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1986; LEADER, VI INDIAN SCIENTIFIC EXPEDITION TO ANTARCTICA (1986-1987).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 20, TEACHING - 2, SURVEY OF NATURAL RESOURCES, TECHNO-ECONOMIC SURVEYS AND ADMN.

1569

DR CH MADHUSUDANA RAO; (B. FEBRUARY 10, 1938),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - ANDHRA '60; M.SC. GEOLOGY - ANDHRA '62; PH.D. MARINE GEOCHEMISTRY - ANDHRA '83.

SPECIALIZATIONS : MARINE GEOLOGY; MARINE GEOCHEMISTRY; PALAEOCEANOGRAPHY.

EXPERIENCE : J.R.F., (C.S.I.R.) ANDHRA UNIV., 1963-66; S.R.F., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1966-90; SCIENTIST EII, N.I.O. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : BASIC AND APPLIED RESEARCH IN GLOBAL CHANGE.

LANGUAGES : GERMAN, TELUGU, ENGLISH.

VISITED : W.GERMANY, SINGAPORE, P.N.G.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20.

1570

DR D PANAKALA RAO; (B. MARCH 15, 1939),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '59; M.SC.(TECH) METROLOGY & OCEANOGRAPHY - ANDHRA '62; PH.D. OCEANOGRAPHY - ANDHRA '78.

SPECIALIZATIONS : OCEAN DATA PROCESSING; PHYSICAL OCEANOGRAPHY.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1967-89; SCIENTIST EII, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A., CANADA, U.K., SWITZERLAND, FRANCE, ITALY, SINGAPORE, W.GERMANY, MALTA.

PUBLICATIONS & PATENTS : RES. PAPERS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, TEACHING - 1.

1571

SHRI L V GANGADHARA RAO; (B. APRIL 24, 1941),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '60; M.SC.(TECH). METEOROLOGY & OCEANOGRAPHY - ANDHRA '63.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., INDIAN OCEAN EXPEDITION DIRECTORATE (CSIR), 1963-66; S.R.F., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1966-86; SCIENTIST EII, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, ENGLISH.

VISITED : FRANCE, NORWAY, KENYA, U.K., CHINA. PERU, U.S.A., THAILAND, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 36, TECH. REPORTS - 14.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 27.

1572

DR T C S RAO; (B. APRIL 11, 1935),

SCIENTIST EII, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANDHRA '55; M.SC. GEOPHYSICS - ANDHRA '59; PH.D. MARINE GEOPHYSICS - ANDHRA '81.

SPECIALIZATIONS : MARINE GEOPHYSICS; UNDERWATER ACOUSTICS; MARINE ENVIRONMENTAL CONTROL.

EXPERIENCE : S.S.A. DEFENCE SCIENCE LABORATORY, NEW DELHI, 1960-62; (ALSO TRAINING IN PHYSICAL OCEANOGRAPHY AND MARINE GEOPHYSICS, UNDER UNESCO PROGRAMME. AUSTRALIA AND NEWZEALAND, 1962); J.S.O., DIRECTORATE OF SCIENTIFIC RESEARCH (NAVY), NEW DELHI, 1962-67; S.S.O. II, NAVAL PHYSICAL AND OCEANOGRAPHIC LABORATORY, COCHIN, 1967-73; (ALSO TRAINING IN MARINE SEISMOLOGY, W.GERMANY, 1967); SCIENTIST C AND SCIENTIST EI, N.I.O., 1973-87; (ALSO TRAINING IN MARINE GEOPHYSICS, U.S.A., 1975-76); SCIENTIST EII, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOPHYSICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : AUSTRALIA, NEWZEALAND, W.GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20, TEACHING - 2, SURVEY OF NATURAL RESOURCES - 5, ADMN. - 10, COMPUTER PROCESSING - 8.

1573

DR(MRS) SUMITRA ROYAN; (B. DECEMBER 10, 1939),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADRAS '60; M.SC. ZOOLOGY - MADRAS '63; PH.D. ZOOLOGY (LIMNOLOGY) - MADURAI '69.

SPECIALIZATIONS : MARINE BIOLOGY; AQUACULTURE; BIOENERGETICS.

EXPERIENCE : DEMONSTRATOR, C.M. COLLEGE AND HOSPITAL, VELLORE, 1964-65; RESEARCH SCHOLAR, MADURAI UNIVERSITY, MADURAI, 1966-69; PROFESSOR, ST. MARY'S COLLEGE, TUTICORIN, 1971-72; ASSISTANT FISHERY SCIENTIST, CENTRAL MARINE FISHERIES RESEARCH INSTITUTE, COCHIN, 1972-74; (ALSO TRAINING IN MARINE BIOLOGY, U.S.A., 1974); SCIENTIST B, SCIENTIST C AND SCIENTIST EI N.I.O., 1974-85; (ALSO CONSULTANT, SRI LANKA, 1983-85); SCIENTIST EII, N.I.O. SINCE SEPTEMBER, 1985.

PRESENT ACTIVITIES : RESEARCH, TRAINING.

LANGUAGES : TAMIL, ENGLISH.

VISITED : U.S.A., MALDIVES, SRI LANKA, U.K., CARIBBEAN COUNTRIES.

PUBLICATIONS & PATENTS : RES. PAPERS - 69, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 15, TEACHING - 4, EDITING - 5.

1574

DR V N SANKARANARAYANAN; (B. APRIL 13, 1938),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '58; M.SC. OCEANOGRAPHY - KERALA '61; PH.D. CHEMICAL OCEANOGRAPHY - KERALA '79.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY; MARINE POLLUTION; HYDROGRAPHY.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1970-88; SCIENTIST EII, N.I.O. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, MALAYALAM, HINDI, ENGLISH.

VISITED : DENMARK, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24, CONSULTANCY - 12, R & D MGMT. - 12.

1575

DR SATISH R SHETYE; (B. OCTOBER 25, 1950),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : PH.D. OCEANOGRAPHY - UNIV. OF WASHINGTON, U.S.A. '82.

SPECIALIZATIONS : PHYSCIAL OCEANOGRAPHY.

EXPERIENCE : RESEARCH ASSOCIATE AND SCIENTIST C, N.I.O., 1982-89; (ALSO RESEARCH UNDER INDO-U.S. PROGRAMME, 1984; WORK ON GLOBAL SEA LEVEL NETWORK OF IOC, UNESCO, FRANCE, 1985). SCIENTIST EII, N.I.O. SINCE SEPTEMBER, 1992.

PRESENT ACTIVITIES : RESEARCH IN PHYSICAL OCEANOGRAPHY.

LANGUAGES : KONKANI, HINDI, ENGLISH.

VISITED : U.S.A., FRANCE, U.S.S.R, GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS
REPORTS - 4, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : .
- 12.

1576

DR S Y S SINGBAL; (B. FEBRUARY 22, 1942),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. PHYSICAL CHEMISTRY - BOMBAY '69; DIPLOMA IN MARINE POLLUTION CHEMISTRY - LIVERPOOL, U.K. '78; PH.D. CHEMISTRY - BOMBAY '81.

SPECIALIZATIONS : PHYSICAL CHEMISTRY; MARINE POLLUTION AND CHEMICAL OCEANOGRAPHY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1970-85; SCIENTIST EII, N.I.O. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : RESEARCH IN CHEMICAL OCEANOGRAPHY AND MARINE POLLUTION.

LANGUAGES : KONKANI, HINDI, MARATHI, PORTUGESE, ENGLISH, FRENCH.

VISITED : U.K., MALAYSIA, SRI LANKA, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS -15.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. AND BASIC RES. - 20.

1577

DR P SIVADAS; (B. APRIL 10, 1939),

SCIENTIST EII, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. ZOOLOGY - ANNAMALAI '61; PH.D. ZOOLOGY - ANNAMALAI '68.

SPECIALIZATIONS : FISHERY BIOLOGY; PHYSIOLOGY; ENDOCRINOLOGY; BIOLOGICAL OCEANOGRAPHY; ECOLOGY.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1973-89; SCIENTIST EII, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH AND RESEARCH MANAGEMENT.

LANGUAGES : MALAYALAM, TAMIL, HINDI, ENGLISH, FRENCH.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH.REPORTS -10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 11, SURVEY OF NATURAL RESOURCES - 7, PROJECT MGMT. - 17.

1578

DR A G UNTAWALE; (B. JUNE 26, 1940),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - NAGPUR '64; M.SC. BOTANY - NAGPUR '66; PH.D. EMBRYOLOGY OF CYPERACEAE - NAGPUR '72.

SPECIALIZATIONS : ECOLOGY DISTRIBUTION; AQUACULTURE; AFFORESTATION MANAGEMENT; CONSERVATION OF MARINE ALGAE AND MANGROVES.

EXPERIENCE : SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1973-89; SCIENTIST EII, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MARATHI, KONKANI, HINDI, ENGLISH.

VISITED : BANGLADESH, MALAYSIA, U.S.A., AUSTRALIA, INDONESIA, SEYCHELLES, PHILIPPINES, U.A.E., SRI LANKA.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. REPORTS - 12, ARTICLES - 3, RADIO TALKS - 2, BOOKS - 2, FIELD GUIDE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 14, TEACHING - 1 , SURVEY OF NATURAL RESOURCES - 4.

1579

DR A B WAGH; (B. JANUARY 10, 1938),

SCIENTIST EII, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '57; M.SC. ZOOLOGY - BOMBAY '59; PH.D. ZOOLOGY - BOMBAY '65.

SPECIALIZATIONS : BIODETERIORATION OF MATERIALS IN MARINE ENVIRONMENT; INTERFIDAL ECOLOGY; OCEANOGRAPHIC RESEARCH VESSEL MANAGEMENT.

EXPERIENCE : J.R.F. AND S.R.F., C.S.I.R., 1962-66; (ALSO TRAINING UNDER DAAD FELLOWSHIP, W. GERMANY, 1966-68); POOL OFFICER, C.S.I.R., 1968-70; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1970-86; SCIENTIST EII, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH AND RESEARCH MANAGEMENT.

VISITED : W. GERMANY, SINGAPORE, NORWAY, U.S.A., CARIBBEAN ISLANDS, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 60, TECH. REPORTS - 10, ARTICLES - 10, RADIO TALKS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 30, APP. RES. - 25, R & D MANAGEMENT - 15, TEACHING - 10.

1580

DR M D ZINGDE; (B. JUNE 3, 1947),

SCIENTIST EII, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - BOMBAY '67; M.SC. (HONS.) INORGANIC CHEMISTRY - BOMBAY '69; PH.D. INORGANIC CHEMISTRY - I.I.T., BOMBAY '74.

SPECIALIZATIONS : AQUATIC POLLUTION; CHEMICAL OCEANOGRAPHY; INORGANIC CHEMISTRY.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, N.I.O., 1974-89; (ALSO ADVANCED TRAINING IN POLLUTION MONITORING UNDER UNESCO PROGRAMME, U.S.A., 1976-77 AND IN INDUSTRIAL POLLUTION AND ENVIRONMENTAL CONTROL UNDER BILATERAL ASSISTANCE PROGRAMME, DENMARK, 1985); SCIENTIST EII- INCHARGE, N.I.O., BOMBAY SINCE MAY, 1989; (ALSO PROJECT OFFICER, P.T.C. BOMBAY FROM SEPTEMBER, 1981).

PRESENT ACTIVITIES : RESEARCH MANAGEMENT IN POLLUTION STUDIES AND CHEMICAL OCEANOGRAPHY, ADMINISTRATION.

LANGUAGES : KONKANI, HINDI, ENGLISH, PORTUGESE, FRENCH.

VISITED : U.S.A., DENMARK, GERMANY, THAILAND, MADAGASCAR.

PUBLICATIONS & PATENTS : RES. PAPERS - 52, TECH. REPORTS - 35.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 10, CONSULTANCY - 10, R & D MANAGEMENT - 10, TECHNO-ECONOMIC SURVEYS - 5, PLANNING - 5, TECHNOLOGY TRANSFER - 5, ADMN. - 6.

1581

DR C T ACHUTHANKUTTY; (B. DECEMBER 12, 1947),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '69; M.SC. MARINE BIOLOGY - KERALA '71; PH.D. APPLIED BIOLOGY - BOMBAY '83.

SPECIALIZATIONS : PRAWN CULTURE; SECONDARY PRODUCTIVITY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY; PRAWN CULTURE.

LANGUAGES : MALAYALAM, TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 48, TECH. REPORTS - 2, ARTICLES -4 .

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, APP. RES. - 19, R & D MANAGEMENT - 17, SURVEY OF NATURAL RESOURCES - 19, TECHNOLOGY TRANSFER - 18.

1582

SHRI F M S ALMEIDA; (B. FEBRUARY 14, 1945),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '67; M.SC. GEOLOGY - POONA '69.

SPECIALIZATIONS : MARINE GEOLOGY; SEABED SURVEY FOR HARBOUR DEVELOPMENT AND PIPELINES.

EXPERIENCE : J.S.A., S.S.A, SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1970-91; (ASLO TRAINING IN OCEANOGRAPHY, JAPAN 1979-81); SCIENTIST EI, N.I.O. SINCE FEBRUARY. 1991.

PRESENT ACTIVITIES : RESEARCH ON SURFICIAL GEOLOGY OF THE SHELF; SEABED SURVEYS FOR OFFSHORE ENGINEERING PROJECTS.

LANGUAGES : KONKANI, ENGLISH, PORTUGUESE, JAPANESE, FRENCH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 26.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 12, SURVEY OF NATURAL RESOURCES - 3.

1583

DR N M ANAND; (B. APRIL 15, 1943),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL - MYSORE '69; M.TECH. MARINE STRUCTURES - MYSORE '72; DR. ING. MARINE TECHNOLOGY - UNIV. OF TRONDHEIM, NORWAY '85.

SPECIALIZATIONS : MARINE STRUCTURES; WAVE DATA ANALYSIS; FLUID STRUCTURE INTERACTION.

EXPERIENCE : JUNIOR ENGINEER, KARNATAKA ENGINEERING RESEARCH STATION, KARNATAKA, 1972-76; SCIENTIST B AND SCIENTIST C, N.I.O. 1976-87; SCIENTIST EI, N.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KANNADA, HINDI, ENGLISH.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10, DESIGN - 6, CONSULTANCY - 8.

1584

DR M K ANTONY; (B. JANUARY 21, 1945),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '65; M.SC. OCEANOGRAPHY - KERALA '67; DOCTOR OF AGRICULTURE - TOKYO UNIV., JAPAN '81.

SPECIALIZATIONS : FISHERIES OCEANOGRAPHY; COASTAL UPWELLING; WIND AND THERMAL STRUCTURES; COASTAL CURRENTS.

EXPERIENCE : J.S.A., DIRECTORATE GENERAL NAVAL PROJECTS, 1969; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1969-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH ON COASTAL CURRENT AND COASTAL UPWELLING.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, JAPANESE.

VISITED : JAPAN, SRI LANKA, MALDIVES.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 22.

1585

SHRI P N ARAVINDAKSHAN; (B. MARCH 23, 1939),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '60; M.SC. MARINE BIOLOGY - KERALA '63.

SPECIALIZATIONS : ZOOPLANKTONOLOGY; SURVEY OF MOLLUSEAN RESOURCES; AQUACULTURE.

EXPERIENCE : SURVEY ASSISTANT, C.M.F.R.I., 1963; J.S.A., I.I.O.E., C.S.I.R., 1963-71; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1971 -91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, RUSSIAN.

VISITED : DENMARK, GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, ARTICLES - 1.

AWARDS & DISTINCTIONS : FELLOW, MARINE BIOLOGICAL ASSOCIATION, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 27, APP. RES. - 11, SURVEY OF NATURAL RESOURCES - 10.

1586

SHRI V RAMESH BABU; (B. JULY 25, 1948),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC.(TECH) METEOROLOGY AND OCEANOGRAPHY - ANDHRA '71.

SPECIALIZATIONS : AIR-SEA INTERACTION; INDIAN OCEAN CIRCULATION; SOUTHERN OCEAN DYNAMICS.

EXPERIENCE : JUNIOR LECTURER, ST. JOSEPH'S JUNIOR COLLEGE FOR GIRLS, GUNTUR, ANDHRA, 1971-72; RESEARCH WORKER, DEPT. METEOROLOGY & OCEANOGRAPHY, ANDHRA UNIV., 1972-73; J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-89; SCIENTIST EI, N.I.O. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : BANGLADESH, SRI LANKA, MALTA, EGYPT, MAURITIUS, SOUTH YEMEN, SINGAPORE, U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 33, TECH. REPORTS - 9, CONSULTANCY PROJECT REPORTS - 4, POPULAR ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC & APP. RES. - 18, TEACHING - 1.

1587

DR N BAHULAYAN; (B. MAY 10, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '71; M.SC. OCEANOGRAPHY - COCHIN '73; PH.D. OCEANOLOGY - ODESSA HYDROMETEOROGICAL INSTITUTE, U.S.S.R. '80.

SPECIALIZATIONS : OCEANIC UPWELLING AND SINKING STUDIES; MODELLING OF OCEAN TIDES, OCEAN CIRCULATION AND STORM SURGES.

EXPERIENCE : RESEARCH FELLOW, N.I.O., 1973-75; POOL OFFICER, I.I.T., NEW DELHI, 1980-82; RESEARCH ASSOCIATE AND SCIENTIST C, N.I.O., 1982-89; (ALSO ADVANCE TRAINING IN TIDES AND STORM SURGES MODELLING, NETHERLANDS, 1984-85 AND NORWAY,1985). SCIENTIST EI, N.I.O. SINCE MAY, 1989.

PRESENT ACTIVITIES : RESEARCH & TEACHING IN OCEANOGRAPHY.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, RUSSIAN.

VISITED : U.S.S.R., NETHERLANDS, NORWAY, CHINA.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 3, BOOK REVIEWS - 2. MONOGRAPH EDITED : 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 16, R & D MGMT. - 6, TEACHING - 1.

1588

DR T BALACHANDRAN; (B. FEBRUARY 26, 1939),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. ZOOLOGY (ENTOMOLOGY) - MADRAS '60; DIPLOMA IN GERMAN LANGUAGE - MADRAS '63; CERTIFICATE IN FRENCH LANGUAGE - MADRAS '64; PH.D. PLANKTONOLOGY - COCHIN '80.

SPECIALIZATIONS : PLANKTONOLOGY; AQUACULTURE; BIOCHEMISTRY; ENTOMOLOGY; ENVIRONMENTAL SCIENCE.

EXPERIENCE : RESEARCH SCHOLAR, G.O.I., UNIVERSITY OF MADRAS, 1960-64; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1964-91; (ALSO TRAINING IN ZOOPLANKTON, UNDER UNESCO FELLOWSHIP, U.K. 1975); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN, FRENCH, RUSSIAN.

VISITED : GERMANY, U.K., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 30, APP. RES. - 30, SURVEY OF LIVING RESOURCES - 27.

1589

SHRI G C BHATTACHARYA; (B. JUNE 23, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - B.H.U. '69; M.SC. GEOPHYSICS - B.H.U. '71.

SPECIALIZATIONS : MARINE GEOPHYSICS; COMPUTER PROGRAMMING.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B, AND SCIENTIST C, N.I.O., 1973-91; (ALSO TRAINING IN MARINE GEOPHYSICS, W.GERMANY, 1978-79); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

VISITED : ITALY, W.GERMANY, NORWAY, FRANCE, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, COMPUTER PROCESSING - 9, EXTENSION - 7.

1590

DR P M A BHATTATHIRI; (B. JANUARY 14, 1937),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '56; PH.D. BIOLOGY - BOMBAY '85.

SPECIALIZATIONS : ORGANIC CARBON PRODUCTION IN MARINE ENVIRONMENT.

EXPERIENCE : J.S.A., SCIENTIFIC ASSISTANT (B) AND SCIENTIFIC ASSISTANT (C), B.A.R.C., BOMBAY, 1957-65; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1966-87; SCIENTIST EI, N.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : R & D, PHOTOSYNTHETIC STUDIES - EFFECTS OF LIGHT NUTRIENTS, STABILITY OF WATER COLUMN, ETC.

LANGUAGES : MALAYALAM, ENGLISH.

VISITED : PENANG, GERMANY, MALTA, CARRIBEAN COUNTRIES, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 45.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 16, TEACHING - 2.

1591

DR NARAYAN B BHOSLE; (B. MARCH 26, 1948),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MARATHWADA '70; M.SC. BIOCHEMISTRY - MARATHWADA '82; PH.D. MICROBIOLOGY - BOMBAY '82.

SPECIALIZATIONS : MARINE BIOGEOCHEMISTRY; MARINE MICROBIOLOGY; MARINE POLLUTION; MARINE MI-

CROFOULING & CORROSION; BACTERIAL EXOPOLYSACCHARIDES.

EXPERIENCE : DEMONSTRATOR, MINISTRY OF AGRICULTURE, INDIA, 1972-73; J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-91; (ALSO TRAINING IN OIL POLLUTION IN U.S.A.); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN MICROFOULING AND CORROSION; MATERIAL DETERIORATION.

LANGUAGES : HINDI, KONKANI, MARATHI, ENGLISH, SINDHI.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 34, TECH. REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 2, APP. RES. - 14, CONSULTANCY - 2, QUALITY CONTROL - 11, TEACHING - 2, EXTENSION - 1.

1592

DR D CHANDRAMOHAN; (B. DECEMBER 13, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANNAMALAI '64; M.SC. MICROBIOLOGY - ANNAMALAI '66; PH.D. MICROBIOLOGY - ANNAMALAI '72.

SPECIALIZATIONS : GENERAL AND MARINE MICROBIOLOGY.

EXPERIENCE : RESEARCH ASSOCIATE, CENTRE OF ADVANCED STUDY IN MARINE BIOLOGY, ANNAMALAI UNIVERSITY, 1972-76; READER, DEPARTMENT OF MARINE SCIENCES, UNIVERSITY OF COCHIN, 1976-80; SCIENTIST C, N.I.O., 1980-87; SCIENTIST EI, N.I.O. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : R & D IN ECOPHYSIOLOLGY OF MARINE MICROBES, MICROBIOLOGICAL POLLUTION, BIOLOGICALLY ACTIVE COMPOUNDS FROM MARINE MICROBES; METAL MICROBE INTERACTIONS

LANGUAGES : TAMIL, MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 63, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20, TEACHING - 10, SURVEY OF NATURAL RESOURCES - 7.

1593

SHRI P CHANDRAMOHAN; (B. MAY 24, 1950),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL - MADRAS '75; DIPLOMA IN OCEANOGRAPHY IN MARINE CIVIL ENGINEERING - NORWEGIAN TECHNICAL UNIV., NORWAY '80; M.E. CIVIL - ANDHRA '82; PH.D. OCEAN ENGINEERING - I.I.T., MADRAS '89.

SPECIALIZATIONS : COASTAL DYNAMICS; BEACH EROSION; MARINE POLLUTION; COASTAL SURVEYS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1976-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, TELUGU, HINDI, ENGLISH.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 19, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 15.

1594

DR S G DALAL; (B. JULY 30, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATAK '71; M.SC. STATISTICS - KARNATAK '73; PH.D. APPLIED BIOLOGY - BOMBAY '85.

SPECIALIZATIONS : BIOSTATISTICS; COMPUTER PROGRAMMING; R & D MANAGEMENT.

EXPERIENCE : BIOSTATISTICIAN - GOA MEDICAL COLLEGE, GOA, 1974; J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1979-89; SCIENTIST EI, N.I.O. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : R & D MANAGEMENT AND ASSESSMENT OF LIVING RESOURCES.

LANGUAGES : HINDI, MARATHI, KONKANI, KANNADA, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 12, R & D MANAGEMENT - 12, PLANNING - 12, COMPUTER PROCESSING - 12.

1595

SHRI V KESAVA DAS; (B. OCTOBER 4, 1948),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '68; M.SC. OCEANOGRAPHY - KERALA '70.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY AND MARINE METEOROLOGY; COMPUTER PROGRAMMING.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST B, N.I.O., 1972-87; SCIENTIST C, N.I.O., 1987-91; SCIENTIST EI AND HEAD PUBLICATION & REPROGRAPHY SECTION, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : PHYSICAL OCEANOGRAPHIC AND MARINE METEREOLOGICAL STUDIES; SCIENCE COMMUNICATION; PUBLIC RELATIONS; EDITING.

LANGUAGES : MALAYALAM, HINDI, TAMIL, ENGLISH.

VISITED : MAURITIUS, DENMARK.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 7, ARTICLES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10, SURVEY OF NATURAL RESOURCES - 10.

1596

DR S N A G M DE'SOUSA; (B. FEBRUARY 26, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '69; M.SC. CHEMISTRY - BOMBAY '71; DIPLOMA IN MARINE POLLUTION CHEMISTRY - UNIV. OF LIVERPOOL, U.K. '79; PH.D. MARINE INORGANIC CHEMISTRY - BOMBAY '84.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY; MARINE POLLUTION; ELECTROCHEMISTRY.

EXPERIENCE : CHEMICAL TECHNOLOGIST. M/S TECH. NOVA, BOMBAY, 1971-72; S.S.A., SCIENTIST A. SCIENTIST B AND SCIENTIST C, N.I.O. 1972-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH, PORTUGESE, FRENCH.

VISITED : U.K., MALAYSIA, KENYA, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 1.

1597

DR ELGAR STEPHEN DESA; (B. DECEMBER 26, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - UNIV. OF LONDON, U.K. '73; PH.D. PHYSICS - UNIV. OF LONDON, U.K. '77.

SPECIALIZATIONS : SOLID STATE PHYSICS; MARINE OPTICS AND MARINE ELECTRONICS.

EXPERIENCE : POOL OFFICER (CSIR), SCIENTIST B AND SCIENTIST C, N.I.O., 1978-89; SCIENTIST EI, N.I.O. SINCE MAY, 1989.

PRESENT ACTIVITIES : R & D IN OPTICAL OCEANOGRAPHIC INSTRUMENTATION.

LANGUAGES : HINDI, ENGLISH, PORTUGUESE, KONKANI.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, CONF. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13.

1598

SHRI R G PRABHU DESAI; (B. JANUARY 27, 1952),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATAK '73; M.SC. PHYSICS - KARNATAK '75.

SPECIALIZATIONS : ELECTRONICS; MICROPROCESSOR BASED INSTRUMENTATION & SYSTEMS.

EXPERIENCE : J.R.F., N.I.O., 1976-77; LECTURER, GOVT. POLYTECHNIC, GOA. 1977; S.S.A., N.G.R.I., 1977-79; S.S.A., SCIENTIST B AND SCIENTIST C. N.I.O., 1979-90; (ALSO TRAINING IN COMPUTER PERIPHERALS, 1984); SCIENTIST EI, N.I.O. SINCE MARCH. 1990.

PRESENT ACTIVITIES : R & D IN MARINE INSTRUMENTATION & SYSTEMS.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH.

VISITED : FRANCE, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8. TECH REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 4, TECHNICAL DEV. - 2. MAINTENANCE - 2.

1599

DR(MRS) C B LALITHAMBIKA DEVI; (B. MARCH 10, 1943),

SCIENTIST EI, N.I.O. REGIONAL CENTRE. COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY. GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY AND OCEANOGRAPHY - KERALA '65; PH.D. FLAT FISH LARUAE - KERALA '88.

SPECIALIZATIONS : PLANKTONOLOGY; AQUACULTURE; ECOLOGY; ICHTHYOPLANKTONOLOGY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A. SCIENTIST B AND SCIENTIST C. N.I.O., 1965-91; (ALSO ADVANCED TRAINING IN FISH EGGS LARVAE & AQUACULTURE, UNDER UNESCO, U.S.A., 1977); SCIENTIST EI. N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, SANSKRIT, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECHNICAL REPORTS - 3, SCIENTIFIC BOOKS - 1, PROCESSES DEVELOPED - 1. PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 9, SURVEY OF NATURAL RESOURCES - 2.

1600

DR SRIKANT N PAI FONDEKAR; (B. NOVEMBER 2, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY. GOA.

QUALIFICATIONS : M.SC. CHEMISTRY - BOMBAY '72; DIPLOMA IN MARINE POLLUTION CHEMISTRY - LIVERPOOL UNIVERSITY. U.K. '80; PH.D. - BOMBAY '87.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY; MARINE POLLUTION.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST B AND SCIENTIST C. N.I.O., 1972-91; SCIENTIST EI. N.I.O. SINCE FEBRUARY. 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KONKANI, HINDI. ENGLISH, MARATHI. PORTUGUESE.

VISITED : U.K., HOLLAND, GERMANY. CANADA. ANTARCTICA. SRI LANKA, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 25. TECH. REPORTS - 10. ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 15.

1601

SHRI M D GEORGE; (B. APRIL 21, 1943),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '65; M.SC. ANALYTICAL CHEMISTRY - KERALA '72.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1966-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN CHEMICAL OCEANOGRAPHY.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : U.K., MALAYSIA, SRI LANKA, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 24.

1602

DR T C GOPALAKRISHNAN; (B. OCTOBER 7, 1944),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '64; M.SC. MARINE BIOLOGY - KERALA '66; PH.D. MARINE BIOLOGY - COCHIN '82.

SPECIALIZATIONS : PLANKTONOLOGY; AQUACULTURE; BIOCHEMISTRY.

EXPERIENCE : RESEARCH ASSISTANT, C.I.F.T., 1966; J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1966-91; (ALSO ADVANCED TRANING IN MARINE BIOLOGY, UNDER UNESCO, U.S.A., 1973-74); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 1, PLANKTON ATLASES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, DESIGN. - 2, SURVEY OF NATURAL RESOURCES - 3.

1603

SHRI C K GOPINATHAN; (B. JULY 11, 1941),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '64; M.SC. OCEANOGRAPHY - KERALA '70.

SPECIALIZATIONS : COASTAL OCEANOGRAPHY; APPLIED PHYSICAL OCEANOGRAPHY (ENERGY FROM SEA).

EXPERIENCE : S.L.A., I.I.O.E., COCHIN, 1965-71; S.R.A., CENTRAL MARINE FISHERIES RESEARCH INSTITUTE, COCHIN, 1971-74; SCIENTIST B AND SCIENTIST C, N.I.O., 1974-86; SCIENTIST EI, N.I.O. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : STUDIES ON MONSOON AND OCEAN SST/ENSO.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : POLAND, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 7, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 25.

1604

DR(MRS) USHA GOSWAMI; (B. SEPTEMBER 8, 1946),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. (HONS) ZOOLOGY - PUNJAB '66; M.SC. ZOOLOGY - PUNJAB '67; PH.D. ZOOLOGY - PUNJAB '72.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; AQUACULTURE; GENETICS; CYTOGENETICS.

EXPERIENCE : POOL OFFICER (CSIR), RESEARCH ASSOCIATE, SCIENTIST B AND SCIENTIST C, N.I.O., 1972-91; SCIENTIST EI, N.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

VISITED : U.S.A., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23, APP. RES. - 18, TEACHING - 3.

1605

SHRI ALBERT DAMIAN GOUVEIA; (B. FEBRUARY 23, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '72; M.SC. PHYSICS - I.I.T., BOMBAY '74.

SPECIALIZATIONS : SPECTRAL ANALYSIS; COMPUTER PROGRAMMING; SOLID STATE PHYSICS; MODELLING OF OIL SPILL MOVEMENT; NUMERICAL MODELLING.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KONKANI, HINDI, ENGLISH, GERMAN.

VISITED : MALAYSIA, W.GERMANY, CANADA, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 3, CONSULTANCY - 3, COMPUTER PROCESSING - 4.

1606

DR K GOVINDAN; (B. JUNE 14, 1944),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANNAMALAI '65; M.SC. MARINE BIOLOGY - ANNAMALAI '67; PH.D. MARINE BIOLOGY - ANNAMALAI '76.

SPECIALIZATIONS : BIOSYSTEMATICS OF MOLLUSCS; MARINE ECOLOGY WITH SPECIAL REFERENCE TO POLLUTION; BENTHIC ECOLOGY; CHEMO AND SERO TAXONOMY AND BIOASSAYS.

EXPERIENCE : RESEARCH ASSISTANT AND J.R.F., ANNAMALAI UNIVERSITY, 1967-74; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D IN MARINE ECOLOGY, BIOLOGICAL ASSESSMENT OF WATER QUALITY ALONG THE COAST OF INDIA, MARINE ECOTOXICOLOGY, MARINE POLLUTION AND PH.D GUIDE.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. REPORTS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 16, CONSULTANCY - 16, R & D MANAGEMENT - 13, OPERATION - 11, MAINTENANCE -12, TEACHING - 12, SURVEY OF NATURAL RESOURCES - 22.

1607

SHRI ANUP RAMCHANDRA GUJAR; (B. OCTOBER 2, 1953),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC.(TECH.) APPLIED GEOLOGY & GEOPHYSICS - NAGPUR '76.

SPECIALIZATIONS : MARINE GEOLOGY.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1979-91; (ALSO TRAINING IN OCEANOGRAPHY, W.GERMANY 1982); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOLOGY.

LANGUAGES : MARATHI, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 7, ABSTRACTS - 8. SCIENTIFIC REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

1608

DR M V S N GUPTHA; (B. MAY 1, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - BANGALORE '68. PH.D. GEOLOGY - ANDHRA '87.

SPECIALIZATIONS : MARINE GEOLOGY; MARINE MICROPALEONTOLOGY; PALEOCLIMATOLOGY.

EXPERIENCE : J.R.F., N.I.O., 1969-72; S.R.F., I.N.S.A., 1972-73; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1973-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

VISITED : KENYA, ETHIOPIA, DJIBOUTI, MAURITIUS, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 37, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA; MEMBER, INTERNATIONAL NANNOPLANKTON ASSOCIATION OF THE NETHERLANDS.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APP. RES. - 21.

1609

DR S N HARKANTRA; (B. SEPTEMBER 27, 1947),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATAK '70; M.SC. MARINE ZOOLOGY - KARNATAK '72; PH.D. MARINE BIOLOGY - KARNATAK '84.

SPECIALIZATIONS : BENTHOS BIOLOGICAL OCEANOGRAPHY; COASTAL AQUACULTURE.

EXPERIENCE : DEPUTY GENERAL MANAGER. CO-OPERATIVE FISH MARKETING FEDERATION LTD., NORTH-KANARA, 1972-73; J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-91; (ALSO TRAINING IN SHIP BOUND AND BENTHIC ECOLOGY, U.K., 1978 AND MATSUMAE INTERNATIONAL FELLOWSHIP, TOKYO, JAPAN, 1987); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN MARINE SEDIMENT DWELLING BENTHOS, BIO- TURBATION.

LANGUAGES : KANNADA, HINDI, KONKANI, MARATHI, ENGLISH.

VISITED : U.K., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 30, TECH. REPORTS - 12, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 17, IND. MANAGEMENT - 1, SURVEY OF MARINE RESOURCES - 17.

1610

SHRI N H HASHIMI; (B. AUGUST 20, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - LUCKNOW '68; M.PHIL. GEOLOGY - ALIGARH '71.

SPECIALIZATIONS : GEOLOGICAL OCEANOGRAPHY; SEDIMENTOLOGY; PALEOCLIMATOLOGY.

EXPERIENCE : J.R.F. AND S.R.F., ALIGARH MUSLIM UNIVERSITY, ALIGARH, 1969-74; ASSISTANT GEOLOGIST, GEOLOGY & MINING DEPARTMENT, RAIPUR M.P., 1974; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : W.GERMANY, SEYCHELLES, KENYA, ETHIOPIA, DJIBOUTI, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 55, ABSTRACTS - 3, TECH. REPORTS - 8, RADIO TALKS - 3, POPULAR ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 22, APP. RES. - 16.

1611

SHRI V JOSANTO; (B. JULY 3, 1945),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. OCEANOGRAPHY - KERALA '68.

SPECIALIZATIONS : COASTAL CIRCULATION AND WASTE DISPOSAL.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1972-87; (ALSO SCIENTIST S-1, ON DEPUTATION, C.M.F.R.I. (I.C.A.R.), COCHIN, 1977-82) SCIENTIST EI, N.I.O. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : R & D IN COASTAL OCEANOGRAPHY; CONSULTANCY.

LANGUAGES : MALAYALAM, TAMIL, HINDI, ENGLISH.

VISITED : SRI LANKA, MALDIVES.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 28.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 18.

1612

DR SHRIDHAR YESHWANT KAMAT; (B. AUGUST 13, 1937),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATAK '60; M.SC. ORGANIC CHEMISTRY - KARNATAK '62; PH.D CHEMISTRY - POONA '67.

SPECIALIZATIONS : CHEMISTRY OF NATURAL PRODUCTS; SYNTHETIC ORGANIC CHEMISTRY.

EXPERIENCE : J.R.F., N.C.L., 1962-66; S.R.F. AND S.R.A., I.I.T., BOMBAY 1967-68. POST DOCTORATE, U.C.M.C. SANFRANCISCO, U.S.A. AND SAINT LOUIS UNIVERSITY, U.S.A., 1968-71; POOL OFFICER (CSIR), UNIV. OF BOMBAY, 1971-74; POST DOCTORATE & RESEARCH ASSOCIATE, SCIENTIST B AND SCIENTIST C, N.I.O., 1975-89; SCIENTIST EI, N.I.O. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KONKANI, HINDI, KANNADA, SANSKRIT, MARATHI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 28, APP. RES. - 2, TEACHING - 3, SURVEY OF NATURAL RESOURCES - 15.

1613

DR(MRS) V SANTHA KUMARI; (B. AUGUST 25, 1940),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY - KERALA '64; PH.D. MARINE BIOLOGY - KERALA '72; D.SC. MARINE BIOLOGY - COCHIN '87;

SPECIALIZATIONS : ZOOPLANKTON ECOLOGY AND TAXONOMY; MARINE BIOLOGY; AQUACULTURE;

EXPERIENCE : CONTRACT SORTER, RESEARCH FELLOW, J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1964-91; (ALSO TRAINING IN MARINE BIOLOGY, U.S.A., 1974); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 49, ARTICLES - 62, POPULAR SCIENCE BOOKS - 3, TECHNICAL REPORT - 1, POEMS (SCIENTIFIC) - 2 .

AWARDS & DISTINCTIONS : FELLOW, MARINE BIOLOGICAL ASSOCIATION OF INDIA, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 6.

1614

DR M MADHUPRATAP; (B. SEPTEMBER 13, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. MARINE BIOLOGY - ANNAMALAI '71; PH.D. MARINE BIOLOGY - COCHIN '77.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; ZOOPLANKTON ECOLOGY AND TAXONOMY.

EXPERIENCE : RESEARCH FELLOW, S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1971 -91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991; (ALSO SPECIALISED STUDIES IN MASS CULTURE AND RESTING BIOLOGY OF ZOOPLANKTON, JAPAN, 1984-86).

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, TAMIL, HINDI, ENGLISH, JAPANESE.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 40, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20.

1615

SHRI M MANOHARAN; (B. AUGUST 7, 1937),

TECHNICAL OFFICER (EI), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : SSLC - KARNATAKA SEC. EDU.BOARD, BANGALORE '54; WIRELESS OPERATOR MECHANIC

GRADE II COURSE - INDIAN AIR FORCE '56; WIRELESS OPERATOR MECHANIC GRADE I COURSE - INDIAN AIR FORCE '61; AIRCRAFT RADIO MAINTENANCE ENGINEER'S LICENSE '72; CERTIFICATE OF PROFICIENCY (RTR) AEROMOBILE SERVICE '73.

SPECIALIZATIONS : ELECTRONIC/ELECTROMECHANICAL INSTRUMENTATION; RADIO TELEGRAPHY; RADIO TELEPHONY.

EXPERIENCE : SERGEANT, INDIAN AIRFORCE, 1955-70; SCIENTIFIC ASSISTANT, I.S.R.O., TRIVANDRUM, 1970-71; J.S.A., N.A.L., 1971-72; AIRCRAFT TECHNICIAN INDIAN AIRLINES, 1972-74; S.T.A., N.A.L., 1975-78; SCIENTIST BI AND SCIENTIST CI, N.I.O., 1978-90; TECHNICAL OFFICER (EI), N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : SERVICING AND MAINTENANCE OF ELECTRONIC/ELECTROCHEMICAL INSTRUMENTS IN THE LAB. AND ALSO ON BOARD RESEARCH VESSELS LIKE ORV 'SAGAR KANYA', RV 'GAVESHANI' AND FORV 'SAGAR SAMPADA'.

LANGUAGES : TAMIL, HINDI, TELUGU, KANNADA, ENGLISH, FRENCH.

VISITED : MALAYSIA, MAURITIUS, GERMANY, NETHERLANDS, ANTARCTICA (III EXPEDITION, IV EXPEDITION & VII EXPEDITION).

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 35, TESTING - 35.

1616

DR K S R MURTHY; (B. APRIL 17, 1948),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC.(TECH.) GEOPHYSICS - ANDHRA '71; PH.D. GEOPHYSICS - ANDHRA '81.

SPECIALIZATIONS : GEOPHYSICAL SURVEYS; INTERPRETATION OF GEOPHYSICAL DATA; COMPUTER PROGRAMMING.

EXPERIENCE : J.S.A. AND S.S.A., N.G.R.I, HYDERABAD, 1973-79; SCIENTIST B AND SCIENTIST C, N.I.O., 1979-89; SCIENTIST EI, N.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : R & D IN MARINE GEOPHYSICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : MAURITIUS, PHILIPPINES, SINGAPORE, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18, SURVEY OF NATURAL RESOURCES - 18, COMPUTER PROCESSING - 14

1617

DR CHANDRAKANT GOVIND NAIK; (B. AUGUST 11, 1947),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. ORGANIC CHEMISTRY -BOMBAY '77; PH.D. CHEMISTRY - BOMBAY '79; CERTIFICATE IN DIVING INSTRUCTOR - PADI, U.S.A.

SPECIALIZATIONS : TERPENE CHEMISTRY; NATURAL SYNTHETIC DRUGS; MARINE NATURAL PRODUCTS CHEMISTRY; DIVING.

EXPERIENCE : TEACHER, NEW GOA HIGH SCHOOL, GOA, 1972-79; RESEARCH ASSOCIATE, INSTITUTE OF SCIENCE, BOMBAY, 1979-80; SCIENTIST B AND SCIENTIST C, N.I.O., 1980-90; SCIENTIST EI, N.I.O. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KONKANI, MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, TEACHING - 2, SURVEY OF NATURAL RESOURCES - 1, PLANNING - 2, TECHNOLOGY TRANSFER - 1.

1618

DR K K CHANDRASEKHARAN NAIR; (B. JUNE 3, 1945),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '65; M.SC. MARINE BIOLOGY AND OCEANOGRAPHY - KERALA '67. PH.D - KERALA '88;

SPECIALIZATIONS : PLANKTONOLOGY; AQUACULTURE; BIOCHEMISTRY.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1968-91; (ALSO ADVANCED RESEARCH IN AQUACULTURE, UNDER DAAD, WEST GERMANY, 1977-78; ADV. RES. ON BIOFILTERS AND WATER SYSTEMS-DAAD -REINVITATION, WEST GERMANY, 1987-88); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, E. GERMANY, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, PLANKTON ATLAS - 1, TECH. REPORTS - 3.

AWARDS & DISTINCTIONS : FELLOW, MARINE BIOLOGICAL ASSOCIATION OF INDIA, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, DESIGN-4, OPERATION - 3, SURVEY OF NATURAL RESOURCES - 4, AQUACULTURE - 4.

1619

DR(MRS) VIJAYLAKSHMI R NAIR; (B. JANUARY 23, 1940),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '59; M.SC. ZOOLOGY - KERALA '61; PH.D. MARINE BIOLOGY - KERALA '72; D.SC. MARINE BIOLOGY - KERALA '82.

SPECIALIZATIONS : ZOOPLANKTONOLOGY; PLANKTON & FISHERIES; MARINE POLLUTION MONITORING.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1964-86; (ALSO RESEARCH FELLOWSHIP IN MARINE SCIENCES, UNDER UNESCO, 1975-76); SCIENTIST EI, N.I.O. SINCE MAY, 1986.

PRESENT ACTIVITIES : R & D, BIOLOGICAL ASSESSMENT OF WATER QUALITY ALONG COASTAL INDIA

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : W. GERMANY, U.S.A., JAPAN, NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 98, TECH. REPORTS - 29.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 27, APP. RES. - 15, CONSULTANCY - 15, ADMN. - 12, REFEREEING AND EDITING - 15.

1620

SHRI SYED WAJIH AHMED NAQVI; (B. AUGUST 10, 1954),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - LUCKNOW '72; M.SC. CHEMISTRY - LUCKNOW '74; PH.D. - PUNE '87.

SPECIALIZATIONS : PHYSICAL CHEMISTRY.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : MAURITIUS, MALTA, EGYPT, MEXICO, U.S.A., ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 28, TECH. REPORTS - 2, ARTICLES - 3.

AWARDS & DISTINCTIONS : CSIR YOUNG SCIENTIST AWARD, 1987.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 16.

1621

DR RAJIV NIGAM; (B. MAY 1, 1954),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - LUCKNOW '72; M.SC. GEOLOGY - LUCKNOW '74; M.PHIL. GEOLOGY - A.M.U. '78; PH.D. GEOLOGY - A.M.U. '82; DIPLOMA IN MARINE MICROPALEONTOLOGY - OSLO (NORWAY) '83.

SPECIALIZATIONS : MICROPALEONTOLOGY (FORAMINIFERA); COMPUTER APPLICATIONS; PALEOCLIMATOLOGY; MARINE POLLUTION.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1976-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : HINDI, ENGLISH.

VISITED : NORWAY, U.K., W.GERMANY, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 42, ARTICLES - 7, ABSTRACTS - 22.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA; CSIR YOUNG SCIENTIST AWARD, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, APP. RES. - 6, TEACHING - 2.

1622

MRS SARAMMA U PANAMPUNNAYIL; (B. NOVEMBER 19, 1947),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY & OCEANOGRAPHY - KERALA '69.

SPECIALIZATIONS : PLANKTONOLOGY; ECOLOGY; MARINE BIOLOGY; MYSIDOLOGY.

EXPERIENCE : J.R.F., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1969-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 2, SURVEY OF NATURAL RESOURCES - 5.

1623

DR ANIL L PAROPKARI; (B. JANUARY 16, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SHIVAJI '71; M.SC. APPLIED GEOLOGY - I.I.T., BOMBAY '74; PH.D. GEOCHEMISTRY - I.I.T., BOMBAY '83.

SPECIALIZATIONS : MARINE GEOCHEMISTRY; MARINE GEOLOGY.

EXPERIENCE : RESEARCH FELLOW, I.I.T., BOMBAY, 1974-76; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1976-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : SINGAPORE.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 14, SURVEY OF NATURAL RESOURCES - 12.

1624

DR V T PAULINOSE; (B. SEPTEMBER 26, 1938),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - MADRAS '60; M.SC. MARINE BIOLOGY - KERALA '63; PH.D. MARINE BIOLOGY - KERALA '80.

SPECIALIZATIONS : MARINE BIOLOGY; OCEANOGRAPHY; ZOOPLANKTONOLOGY; DECAPOD LARVAE OF THE INDIAN OCEAN - PENEID LARVAE.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1964-91; (ALSO RESEARCH IN MARINE BIOLOGY, UNDER UNESCO, U.K., 1970); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH; OCEANOGRAPHIC CRUISES.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, FRENCH.

VISITED : U.K., DENMARK, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 30.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 23.

1625

DR K J PETER; (B. APRIL 1, 1935),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - MADRAS '55; M.SC. ZOOLOGY - SAUGAR '58; PH.D. FISH LARVAE - COCHIN '82.

SPECIALIZATIONS : FISH EGGS AND LARVAE; ZOOPLANKTONOLOGY; ZOOGEOGRAPHY; FISH RESOURCE SURVEYS.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1963-80; SENIOR BIOLOGIST UNDER PELAGIC FISHERY PROJECT, MINISTRY OF AGRICULTURE, 1978-80; SCIENTIST C, N.I.O., 1980-87; (UNESCO CHIEF TECHNICAL ADVISOR, REPUBLIC OF YEMEN SINCE FEBRUARY, 1990); SCIENTIST EI, N.I.O. SINCE SEPTEMBER, 1987.

PRESENT ACTIVITIES : R & D CONSULTANCY.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : DENMARK, U.S.S.R., JAPAN, U.K., YEMEN.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 32, SURVEY OF NATURAL RESOURCES - 23.

1626

SHRI M D RAJAGOPAL; (B. MAY 12, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '69; M.SC. MARINE BIOLOGY - KERALA '71.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : SENIOR RESEARCH SCHOLAR, C.M.F.R.I., COCHIN, 1972-74; J.R.F., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 12.

1627

DR A RAJENDRAN; (B. MAY 7, 1945),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADRAS '66; M.SC. MARINE SC. - ANNAMALAI '69; PH.D. MARINE SCIENCE - ANNAMALAI '74.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : POOL OFFICER (CSIR), N.I.O., 1976-78; (ALSO TRAINING IN MARINE SCIENCE, U.S.A., 1977); SCIENTIST B AND SCIENTIST C, N.I.O., 1978-88; (ALSO UNESCO POST-DOCTORAL RESEARCH FELLOW, NETHERLANDS, 1985-86); SCIENTIST EI, N.I.O. SINCE MAY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, ENGLISH.

VISITED : U.S.A., NETHERLANDS, MAURITIUS, FRANCE, SWEDEN, GERMANY, CARRIBEAN COUNTRIES.

PUBLICATIONS & PATENTS : RES. PAPERS - 33, TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21.

1628

SHRI L V SUBBA RAJU; (B. APRIL 19, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '64; M.SC.(TECH.) GEOPHYSICS - ANDHRA '67.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : J.L.A. AND J.T.A., N.G.R.I., 1970-76; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1981-91; (ALSO TRAINING IN OCEAN RESEARCH VESSEL, W. GERMANY,1982); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D; INTEGRATED MARINE GEOPHYSICAL DATA COLLECTION, PROCESSING AND INTERPRETATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : W. GERMANY, DENMARK, SINGAPORE, SRI LANKA.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 24, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 1.

1629

DR M V RAMANA; (B. JULY 1, 1950),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. (TECH.) GEOPHYSICS - ANDHRA '74. PH.D. GEOPHYSICS - ANDHRA '88.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS.

EXPERIENCE : GEOPHYSICAL ASSISTANT, GROUNDWATER DEPTT., HYDERABAD (A.P.), 1977 -79; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1979-91; (ALSO TRAINING IN MARINE MAGNETIC DATA PROCESSING AND INTERPRETATION, NORWAY, 1981-82); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MARINE GEOPHYSICAL STUDIES IN THE SEAS SURROUNDING INDIAN CONTINENT & INDIAN OCEAN.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : NORWAY, GERMANY, EGYPT, MALTA, JAMAICA, BAHAMAS, BARBADOS, MONTSARRATE, TRINIDAD AND TABAGO, GUYANA(S.A.), SINGAPORE, SRI LANKA.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, OPERATION - 3, TESTING - 3, MAINTENANCE - 3, SURVEY OF NATURAL RESOURCES - 3.

1630

DR DASARI GOPALA RAO; (B. JUNE 1, 1943),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. (TECH) GEOPHYSICS - ANDHRA '69; PH.D. MARINE GEOPHYSICS - ANDHRA '84.

SPECIALIZATIONS : MARINE SEISMIC, GRAVITY AND MAGNETIC STUDIES.

EXPERIENCE : RESEARCH SCHOLAR, ANDHRA UNIVERSITY, ANDHRA, 1969-71; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1971-87; (ALSO ADVANCED TRAINING IN MARINE GEOPHYSICS IN FRG DURING 1979-81); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : MARINE GEOPHYSICAL STUDIES OF THE INDIAN SEA, TRANS INDIAN OCEAN GEOTRAVERSE AND EAST ANTARCTIC CONTINENTAL MARGIN.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY,U.S.S.R, FRANCE, SPAIN, MALTA, ITALY, MOROCCO, SINGAPORE, DJIBOUTI, GRAND CANARY ISLANDS, CHRISTMAS ISLANDS (AUSTRALIA).

PUBLICATIONS & PATENTS : RES. PAPERS - 31, TECH. REPORTS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 29.

1631

SHRI K KAMESWARA RAO; (B. AUGUST 1, 1942),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - MADRAS '62; M.SC. ZOOLOGY - MADRAS '64; POST GRADUATE TRAINING IN RADIOLOGICAL PHYSICS - ATOMIC ENERGY ESTABLISHMENT, TROMBAY '65.

SPECIALIZATIONS : RECENT AND TERTIARY FORAMINIFERA; PALEOECOLOGIC AND PALEOCLIMATIC STUDIES.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1966-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH ON FORAMINIFERA.

LANGUAGES : TELUGU, HINDI, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20, SURVEY OF NATURAL RESOURCES - 20.

1632

DR JOSEPH P ROYAN; (B. JUNE 12, 1944),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADRAS '64; M.SC. MARINE BIOLOGY - ANNAMALAI '67; PH.D. ZOOLOGY - MADURAI '73.

SPECIALIZATIONS : MARINE BIOLOGY; BRINE SHRIMP CULTURE; ECOLOGICAL ENERGETICS.

EXPERIENCE : DEMONSTRATOR, V.O.C. COLLEGE, TUTICORIN, 1964-65 & 1967-68; (ALSO POST-DOCTORAL RESEARCH IN MARINE BIOLOGY, U.K., 1973-74); POOL OFFICER (CSIR), N.I.O., 1975-78; RESEARCH ASSOCIATE, SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1978-91; (ALSO CONSULTANT SRI LANKA, 1983-85); SCIENTIST EI, N.I.O. SINCE MARCH, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TAMIL, ENGLISH.

VISITED : U.K., MALDIVES, SRI LANKA, BELGIUM.

PUBLICATIONS & PATENTS : RES. PAPERS - 45, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 8, CONSULTANCY - 4, TEACHING - 3.

1633

DR V V SARMA; (B. AUGUST 10, 1950),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANDHRA '70; M.SC. ANALYTICAL CHEMISTRY - ANDHRA '72; PH.D. CHEMISTRY - ANDHRA '76.

SPECIALIZATIONS : ANALYTICAL CHEMISTRY; CHEMICAL OCEANOGRAPHY; COORDINATION CHEMISTRY; SEPARATION TECHNIQUES; MARINE POLLUTION.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1981-91; (ALSO TRAINING IN INDUSTRIAL POLLUTION CONTROL IN DENMARK, 1985); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : APPLIED RESEARCH IN MARINE POLLUTION AND CHEMICAL OCEANOGRAPHY.

LANGAUGES : TELUGU, HINDI, ENGLISH.

VISITED : DENMARK.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 13.

1634

SHRI JASWANT SINGH SARUPRIA; (B. JULY 1, 1950),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. MATHEMATICS '72; DIPLOMA IN COMPUTER PROGRAMMING '75.

SPECIALIZATIONS : COMPUTER APPLICATIONS; SOFTWARE DEVELOPMENT; COMPUTER ORIENTED OCEANOGRAPHIC DATA MANAGEMENT.

EXPERIENCE : TEACHER, STATE EDUCATION DEPARTMENT, RAJASTHAN, 1973-76; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1985-88; SCIENTIST EI, N.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : OCEANOGRAPHIC DATA AND INFORMATION MANAGEMENT; SOFTWARE DEVELOPMENT, DBMS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., CANADA, U.K., U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORT - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MANAGEMENT - 15, TEACHING - 3, COMPUTER SOFTWARE DEVELOPMENT - 12, OCEANOGRAPHIC INFORMATION & DATA MANAGEMENT - 15.

1635

SHRI P V SATHE; (B. NOVEMBER 1, 1950),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. CHEMISTRY - BOMBAY '71; B.SC. PHYSICS - BOMBAY '72; M.SC. PHYSICS - BOMBAY '75.

SPECIALIZATIONS : OCEANOGRAPHIC DATA COLLECTION AND INTERPRETATION; COMPUTER PROGRAMMING; IMAGE PROCESSING; REMOTE SENSING.

EXPERIENCE : TEACHER, SARASWAT VIDYALAYA, 1974-75; J.R.F., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1975-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MARATHI, HINDI, GUJARATI, KONKANI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 15, ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, CONSULTANCY - 2, TEACHING - 1.

1636

MRS ROSAMMA STEPHEN; (B. AUGUST 17, 1945),

SCIENTIST EI, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY & OCEANOGRAPHY - ANNAMALAI '73.

SPECIALIZATIONS : MARINE BIOLOGY; PLANKTONOLOGY; ECOLOGY; COPEPODOLOGY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1966-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECHNICAL REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 2, SURVEY OF NATURAL RESOURCES - 5.

1637

SHRI G NARAYANA SWAMY; (B. JUNE 2, 1950),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '70; M.SC. OCEANOGRAPHY - COCHIN '72; DI DIPLOMA IN MARINE CIVIL ENGINEERING - NORWAY '80.

SPECIALIZATIONS : POLLUTANT DISPERSION IN COASTAL WATERS; COASTAL ZONE MANAGEMENT; HUMAN RESOURCE DEVELOPMENT IN OCEAN SCIENCE AND TECHNOLOGY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-88; (ALSO TRAINING IN OCEANOGRAPHY, NORWAY, 1980); SCIENTIST EI, N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : PLANNING AND EXECUTION OF COASTAL OCEANOGRAPHIC PROJECTS, TECHNICAL EDITING.

LANGUAGES : MALAYALAM, TAMIL, HINDI, ENGLISH.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 25, ATRICLES - 18, POPULAR SCIENCE BOOK - 1, LITERARY WORKS - 20.

AWARDS & DISTINCTIONS : FIRST GENERAL SECRETARY, INDAIN SOCIETY FOR PHYSICAL SCIENCES OF THE OCEAN; FIRST CO-EDITOR, BULLETIN OF THE SOCIETY FOR OFFSHORE ENGINEERING & UNDER WATER TECHNOLOGY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 15, EDITING - 10.

1638

SHRI M P TAPASWI; (B. JULY 25, 1953),

DOCUMENTATION OFFICER (EI), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MARATHWADA '72; B. LIBRARY SCIENCE - MARATHWADA '73; M.SC. ZOOLOGY - MARATHWADA '77; ASSOCIATESHIP IN DOCUMENTATION AND INFORMATION SCIENCE - D.R.T.C., BANGALORE '79.

SPECIALIZATIONS : DOCUMENTATION AND INFORMATION SCIENCE.

EXPERIENCE : LIBRARIAN, S.B.E.S. COLLEGE OF SCIENCE, AURANGABAD, 1973-77; ASSTT. LIBRARIAN, INDIAN GRASSLAND & FODDER RESEARCH INST., JHANSI, 1978-79; JUNIOR DOC. OFF. (B) AND SENIOR DOC. OFF. (C), N.I.O., 1979-89; DOCUMENTATION OFFICER (EI), N.I.O. SINCE MAY, 1990.

PRESENT ACTIVITIES : LIBRARY ADMINISTRATION, PLANNING & DOCUMENTATION SERVICES.

LANGUAGES : HINDI, ENGLISH, MARATHI.

VISITED : U.S.A., FRANCE, THAILAND, BERMUDA, ITALY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 17, CONFERENCE PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : LIBRARY ADMN. - 16, DOCUMENTATION - 11.

1639

DR M J VARKEY; (B. NOVEMBER 30, 1945),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA

QUALIFICATIONS : B.SC. - KERALA '65; M.SC. OCEANOGRAPHY - KERALA '67; PH.D. OCEANOGRAPHY - KERALA '89; CERTIFICATE IN STATISTICS - I.S.I. '71; DIPLOMA IN APPLIED OCEANOGRAPHY - NORWEGIAN TECHNICAL UNIV. '80.

SPECIALIZATIONS : WIND WAVE MODELLING; TIME SERIES ANALYSIS; COMPUTER PROGRAMMING.

EXPERIENCE : J.R.F., CENTRE FOR MARINE BIOLOGY, PORTO NOVO, 1968-69; J.S.A., NAVAL PHYSICAL & OCEANOGRAPHIC LABORATORY, COCHIN, 1969-71; S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1973-88; (ALSO SPECIALISED TRAINING IN APPLIED OCEANOGRAPHY AND MARINE CIVIL ENGINEERING, NORWAY, 1980); SCIENTIST EI, N.I.O. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, CONSULTANCY - 4, SURVEY OF NATURAL RESOURCES - 4, PLANNING - 3, TECHNICAL REPORTS -11.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING AND BASIC RES. - 20, CONSULTANCY - 2.

1640

DR MUTHAVARAPU VEERAYYA; (B. JUNE 26, 1939),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - OSMANIA '61; M.SC.(TECH.) APPLIED GEOLOGY - ANDHRA '64; PH.D. GEOLOGY - ANDHRA '78.

SPECIALIZATIONS : MARINE GEOLOGY; COASTAL OCEANOGRAPHY; SEDIMENT TRANSPORT; CONTINENTAL MARGIN.

EXPERIENCE : J.R.F., S.R.F., SCIENTIST B AND SCIENTIST C, N.I.O., 1969-87; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, APP. RES. - 13, CONSULTANCY - 7, R & D MANAGEMENT - 7.

1641

SHRI KAMLESH H VORA; (B. JANUARY 11, 1952),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - BARODA '74; M.TECH. CIVIL ENGINEERING - I.I.T., KANPUR '76.

SPECIALIZATIONS : MARINE GEOLOGY; SEABED SURVEYS FOR OFFSHORE ENGINEERING.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST B AND SCIENTIST C, N.I.O., 1976-91; (ALSO TRAINING IN MARINE GEOLOGY AND GEOPHYSICAL DATA COLLECTION AND INTEPRETATION, NORWAY,1979 AND 1980-81); SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SURFICIAL GEOLOGY OF THE WESTERN CONTINENTAL SHELF OF INDIA; SEABED SURVEYS FOR OFFSHORE ENGINEERING PROJECTS.

LANGUAGES : HINDI, GUJARATI, ENGLISH.

VISITED : NORWAY, DENMARK, W.GERMANY, U.K., MAURITIUS, JAMAICA, BARBADOS, TRINIDAD AND TABAGO, GUYANA.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 26.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 14, APP. RES. - 14, SURVEY OF NATURAL RESOURCES - 14.

1642

DR(MRS) S WAHIDULLA; (B. MAY 29, 1948),

SCIENTIST EI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC - BOMBAY '68; M.SC. CHEMISTRY - BOMBAY '70; PH.D. CHEMISTRY - BOMBAY '84.

SPECIALIZATIONS : SYNTHETIC ORGANIC CHEMISTRY; CHEMISTRY OF NATURAL PRODUCTS.

EXPERIENCE : J.R.F. (U.G.C.), BOMBAY UNIVERSITY, 1971-74; S.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, N.I.O., 1974-91; SCIENTIST EI, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : R & D.

LANGUAGES : URDU, HINDI, KONKANI, PORTUGUESE, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 16, SURVEY OF NATURAL RESOURCES - 16.

1643

DR(MRS) SHANTA ACHUTTAKUTTY; (B. OCTOBER 31, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. CHEMISTRY - MADURAI '72; M.SC. BIOCHEMISTRY - MADRAS '74; PH.D. MARINE MICROBIOLOGY - TOKYO, JAPAN '86.

SPECIALIZATIONS : MARINE MICROBIOLOGY.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1974-90; (ALSO STUDIES FOR PH.D. IN MARINE MICROBIOLOGY, JAPAN, 1982-86); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN MARINE MICROBIOLOGY.

LANGUAGES : MALAYALAM, HINDI, TAMIL, ENGLISH, JAPANESE.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 16, APP. RES. - 16, SURVEY OF NATURAL RESOURCES.

1644

SHRI SANJEEV AFZULPURKAR; (B. NOVEMBER 15, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - OSMANIA '78; M.SC.(TECH.) APPLIED ELECTRONICS - OSMANIA '81.

SPECIALIZATIONS : ELECTRONICS.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-88; (ALSO TRAINING FOR UNDERWATER CAMERA SYSTEM, U.S.A., 1983); SCIENTIST C, N.I.O. SINCE FEBURARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON SEDIMENT TEMPERATURE PROFILES; MANAGEMENT.

LANGUAGES : MARATHI, HINDI, TELUGU, ENGLISH.

VISITED : U.S.A., W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 7.

1645

SHRI A C ANIL; (B. JANUARY 23, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. MARINE BIOLOGY - KARNATAK '81; PH.D. ZOOLOGY - GOA '87; D.AR. OCEANOGRAPHY - TOKYO '91.

SPECIALIZATIONS : MARINE ECOLOGY; CIRRIPEDIA LARVAL BIOLOGY & ECONOMY; MACROFOULING.

EXPERIENCE : FELLOWSHIP, N.I.O., 1991; SCIENTIST C, N.I.O. SINCE NOVEMBER, 1991.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KANNADA, ENGLISH, HINDI, JAPANESE.

VISITED : JAPAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 11

1646

SHRI ZAKIR ALI ANSARI; (B. JULY 1, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - A.M.U. '68; M.SC. ZOOLOGY - A.M.U. '71.

SPECIALIZATIONS : AQUACULTURE; BENTHIC ECOLOGY; BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1976-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE SCIENCE.

LANGUAGES : URDU, KONKANI, HINDI, ENGLISH.

VISITED : MALAYSIA, SRI LANKA, DENMARK, NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 55, TECH. REPORTS - 7, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 8, TECH. DEV. - 4, CONSULTANCY - 6, SURVEY OF NATURAL RESOURCES - 12.

1647

SHRI T BALASUBRAMANIAN; (B. JUNE 19, 1947),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY - ANNAMALAI '69.

SPECIALIZATIONS : PRIMARY PRODUCTIVITY; AQUACULTURE AND ECOPHYSIOLOGY.

EXPERIENCE : S.R.F., C.M.F.R.I., MANDAPAM, 1971-74; J.R.F., J.S.A., S.S.A., SCIENSTIST A AND SCIENTIST B, N.I.O., 1974-90; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN ECOPHYSIOLOGY & ENVIRONMENTAL ASPECTS.

LANGUAGES : TAMIL, MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

AWARDS & DISTINCTIONS : FELLOW, MARINE BIOLOGICAL ASSOCIATION INDIA, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRIMARY PRODUCTION & AQUACULTURE - 16.

1648

SHRI V K BANAKAR; (B. JULY 1, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - KARNATAK '77; M.SC. APPLIED GEOLOGY - KARNATAK '80; PH.D. MARINE GEOLOGY - KARNATAK '88.

SPECIALIZATIONS : GEOCHEMISTRY; IRON AND MANGANESE NODULES EXPLORATION; RADIO CHEMISTRY; GEOCHRONOLOGY; EXPLORATION FOR DEEP SEA NON-LIVING RESOURCES.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; (ALSO EXPLORATION IN EXCLUSIVE ECONOMIC ZONE OF SEYCHELLES, SPONSORED BY CSIR/DOD, 1984; PALEOCLIMATIC STUDIES IN ARABIAN SEA, INDO - F.R.G. COLLABORATION, 1986); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH AND EXPLORATION FOR FERRO-MANG. NODULES IN INDIAN OCEAN.

LANGUAGES : KANNADA, HINDI, ENGLISH.

VISITED : SEYCHELLES, MAURITIUS, E.GERMANY, KENYA, DJIBONTI.

PUBLICATIONS & PATENTS : PUBLICATIONS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, SURVEY OF NATURAL RESOURCES - 4.

1649

SHRI RANADIP BANERJEE; (B. MARCH 4, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - JADAVPUR '78; M.SC. APPLIED GEOLOGY - JADAVPUR '82.

SPECIALIZATIONS : MARINE GEOLOGY; POLYMETALLIC NODULE CHEMISTRY AND MINERALOGY; PLANNING AND MONITORING OF DEEP SEA EXPLORATION.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D, PLANNING AND SURVEY OF NATURAL RESOURCES.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : MALTA, EGYPT.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 3, ABSTRACTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 6, R & D MGMT. - 5, SURVEY OF NATURAL RESOURCES - 6, PLANNING - 5.

1650

SHRI S R BHAT; (B. JANUARY 8, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATK '73; M.SC. BOTANY - KARNATK '81; SHORT-TERM COURSE IN COMPUTER PROGRAMMING - I.I.T.M., PUNE '78.

SPECIALIZATIONS : EMBRYOLOGY OF MANGROVES; INFORMATION DISSEMINATION; PUBLICATION; SCIENCE EDITING.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST B, N.I.O., 1975-87; SCIENTIST C, N.I.O. SINCE JUNE, 1988.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION ON AQUATIC SCIENCE AND FISHERIES; INFORMATION MANAGEMENT, EDITING AND PUBLICATION.

LANGUAGES : KONKANI, KANNADA, MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 2, SCIENTIFIC BOOKS (COEDITED) - 1, POPULAR ARTICLES - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 2, EDITING - 15.

1651

DR D V BOROLE; (B. JUNE 1, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. PHYSICAL CHEMISTRY - PUNE '73; PH.D. GEOCHEMISTRY - GUJARAT '81.

SPECIALIZATIONS : MARINE GEOCHEMISTRY; MARINE GEOCHRONOLOGY.

EXPERIENCE : RESEARCH FELLOW AND VISITING FELLOW, PHYSICAL RESEARCH LABORATORY, AHMEDABAD, 1973-82; RESEARCH ASSOCIATE, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D IN GEOLOGICAL OCEANOGRAPHY.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : AUSTARLIA, MAURITIUS, SRI LANKA, W.GERMANY, U.K., CHILE.

PUBLICATIONS & PATENTS : RES. PAPERS - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND APP. RES. - 18, TEACHING - 1.

1652

DR BISHWAJIT CHAKRABORTY; (B. MAY 4, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY; GOA.

QUALIFICATIONS : B.SC. PHYSICS - B.H.U. '78; M.SC. PHYSICS - B.H.U. '80; PH.D UNDERWATER ACOUSTIES - B.H.U. '90.

SPECIALIZATIONS : ELECTROMAGNETIC WAVES; UNDERWATER ACOUSTICS; ANTENNA FIELD AND SIGNAL PROCESSING SONAR.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1983-88, SCIENTIST C, N.I.O. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : GEOLOGICAL, GEOPHYSICAL MARINE SURVEYS AND R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : W.GERMANY, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 6, R & D MGMT. - 4, MAINTENANCE - 4, ADMN. - 4, COMPUTER PROCESSING - 6.

1653

DR ANIL K CHATTERJI; (B. FEBRUARY 18, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - A.M.U. '69; M.SC. ZOOLOGY - A.M.U. '71; M.PHIL. ZOOLOGY - A.M.U. '74; PH.D. ZOOLOGY (FISHERIES) - A.M.U. '76.

SPECIALIZATIONS : ICHTHYOLOGY AND FISHERIES; MARINE BIOLOGY.

EXPERIENCE : P.D.F., A.M.U., ALIGARH, 1976-80; RESEARCH ASSOCIATE, N.I.O., 1980-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE SCIENCE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 29, TECH. REPORTS - 5, ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 7, CONSULTANCY - 4, SURVEY OF NATURAL RESOURCES - 8, EXTENSION - 2.

1654

SHRI A K CHAUBEY; (B. JANUARY 1, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

ST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - GORAKHPUR '79; M.TECH. (APPLIED GEOPHYSICS) - ROORKEE '83.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : S.R.A., DEPTT. OF EARTHQUAKE ENGINEERING, UNIV. OF ROORKEE, 1983-84; SCIENTIST B, N.I.O., 1984-89; SCIENTIST C, N.I.O. SINCE JULY, 1989.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOPHYSICS.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

VISITED : MAURITIUS, NORWAY, SINGAPORE.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, SURVEY OF NATURAL RESOURCES - 1, SEISMIC DATA PROCESSING - 3.

1655

DR O S CHAUHAN; (B. JANUARY 12, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - J.N.U., NEW DELHI '78; M.PHIL. - J.N.U., NEW DELHI '80; D.PHIL. GEOLOGY - GARHWAL '86.

SPECIALIZATIONS : GEOPHYSICAL OCEANOGRAPHY; SEDIMENTARY GEOCHEMISTRY; COASTAL OCEANOGRAPHY; MARINE GEOPHYSICS.

EXPERIENCE : GEOPHYSICIST, E.I.L., NEW DELHI, 1981-82; GEOLOGIST, G.S.I., DIMAPUR, 1982-83: SCIENTIST B, N.I.O., 1983-88. SCIENTIST C, N.I.O. SINCE MAY, 1988.

PRESENT ACTIVITIES : GEOLOGICAL AND GEOPHYSICAL MARINE SURVEYS; SEDIMENTOLOGICAL AND MINERALOGICAL ANALYSES OF SEDIMENTS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 4, ARTICLES - 2.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA, 1984; MEMBER, INSTITUTE OF NAUTICAL ARCHAEOLOGY, U S A, 1988; MEMBER, INTERNATIONAL SEA LAW INSTITUTE, HAWAII, U S A. 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10. CONSULTANCY - 4, R & D MGMT. - 1, TEACHING - 1, ADMN. - 1, EDITING - 2, DOCUMENTATION - 2, COMPUTER PROCESSING - 6.

1656

SHRI EURICO JOHN D'SA; (B. FEBRUARY 1, 1955),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. ELECTRICAL - BOMBAY '81; M.SC(ENGG) IMAGE PROCESSING - INDIAN INSTITUTE OF SCIENCE, BANGALORE '90.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION & SYSTEMS; IMAGE PROCESSING.

EXPERIENCE : TRAINEE ENGINEER, DEMPO MINING CORPORATION, 1981-82; J.R.F., N.I.O., 1982-83; SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988; (ALSO TRAINING ON COMPUTER PERIPHERALS, FRANCE, 1984).

PRESENT ACTIVITIES : MARINE INSTRUMENTATION.

LANGUAGES : KONKANI, ENGLISH.

VISITED : FRANCE, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 2.

AWARDS & DISTINCTIONS : MEMBER, IETE (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, MAINTENANCE - 2.

1657

MRS CLASSY D'SILVA; (B. APRIL 15, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '72; M.SC. BIOCHEMISTRY - BOMBAY '74.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F. AND S.R.F., N.I.O., 1974-78; J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1978-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KONKANI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC AND APP. RES. - 12.

1658

MRS MARIA L D'SOUZA; (B. APRIL 8, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. ORGANIC CHEMISTRY - BOMBAY '76.

SPECIALIZATIONS : MARINE NATURAL PRODUCTS.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1976-91; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN MARINE NATURAL PRODUCTS.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH, PORTUGUESE.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 14.

1659

DR(MRS) K SARALA DEVI; (B. APRIL 11, 1944),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. ZOOLOGY - KERALA '64; M.SC. MARINE SCIENCE - COCHIN '77; PH.D. - COCHIN '87.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A., J.T.A., S.T.A., AND SCIENTIST B, N.I.O., 1966-90; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990; (ALSO UNESCO FELLOW, NETHERLANDS, 1986-87)

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY, PLANKTONOLOGY AND MARINE POLLUTION.

LANGUAGES : MALAYALAM, HINDI, TAMIL, ENGLISH.

VISITED : NETHERLANDS, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 21, APPLIED RESEARCH - 4.

1660

DR VINOD K DHARGALKAR; (B. MARCH 18, 1944),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATKA '79; M.SC. BOTANY - BOMBAY '78; PH.D. BOTANY - BOMBAY '82.

SPECIALIZATIONS : MARINE BOTANY (MARINE ALGAE); ANTARCTIC BIOLOGY.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, N.I.O., 1972-88; SCIENTIST C SINCE JULY, 1988.

PRESENT ACTIVITIES : RESEARCH IN ANTARCTIC BIOLOGY, MARINE ALGAE.

LANGUAGES : MARATHI, HINDI, KONKANI, ENGLISH.

VISITED : AUSTRALIA, ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 10, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, R & D MGMT. - 4, SURVEY OF NATURAL RESOURCES - 8, ADMN. - 6, ANTARCTIC EXPEDITION - 1.

1661

SHRI S G DIWAN; (B. SEPTEMBER 1, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SHIVAJI '71; M.SC. PHYSICS - SHIVAJI '73; M.TECH. ELECTRONICS - I.I.SC. BANGALORE '75.

SPECIALIZATIONS : ELECTRONICS; INSTRUMENTATION; OCEAN ENGINEERING.

EXPERIENCE : ASSISTANT LECTURER, WALCHAND COLLEGE OF ENGINEERING, SANGLI(MAH), 1976; S.S.A. AND SCIENTIST B, N.I.O., 1976-84; (ALSO HIGHER TRAINING IN APPLIED PHYSICAL OCEANOGRAPHY, NORWAY, 1980); SCIENTIST C, N.I.O. SINCE MARCH, 1984.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 2, PATENTS TAKEN - 1, PATENTS FILED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11, DESIGN - 11, TECH. DEV. - 11, CONSTRUCTION - 11, TESTING - 11, MAINTENANCE - 11.

1662

SHRI A A FERNANDES; (B. SEPTEMBER 6, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '73; M.SC. MATHEMATICS - BOMBAY '75.

EXPERIENCE : ASSISTANT TEACHER, SHIKSHA SADAN, PRIOL, GOA, 1974-75; S.L.A., J.S.A., S.S.A., TECHNICAL OFFICER AND SCIENTIST B, N.I.O., 1975-90; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : R & D IN COASTAL PROCESSES.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH, PORTUGUESE, FRENCH, LATIN.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 10, TEACHING - 1, CONSULTANCY - 3, COMPUTER PROCCESSING - 11.

1663

DR SHANKAR N GAJBHIYE; (B. MARCH 7, 1953),

SCIENTIST C, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - MARATHWADA '74; LL.B. - MARATHWADA '76; M.SC. ZOOLOGY - BOMBAY '79; PH.D. APPLIED BIOLOGY - BOMBAY '82.

SPECIALIZATIONS : POLLUTION CONTROL; ZOOPLANKTONOLOGY AND FISHERIES.

EXPERIENCE : S.L.A., J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1975-88; (ALSO POSTDOCTORAL RESEARCH AND TRAINING, JAPAN, 1985-87); SCIENTIST C, N.I.O. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D., APP.RES.

LANGUAGES : MARATHI, HINDI, GUJARATI, ENGLISH, JAPANESE.

VISITED : JAPAN, MAURITIUS, W. GERMANY, CARRIBEAN ISLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 35, TECH. REPORTS - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 12. CONSULTANCY - 1, R & D MANAGEMENT - 5.

1664

SHRI K ARVIND GHOSH; (B. MARCH 12, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. APPLIED MATHEMATICS - ANDHRA '75.

SPECIALIZATIONS : OCEANOGRAPHIC DATA MANAGEMENT; COMPUTER SOFTWARE DEVELOPMENT.

EXPERIENCE : J.R.F., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1980-90; (ALSO TRAINING IN COMPUTER SOFTWARE DEVELOPMENT, DENMARK, 1984); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : COMPUTER SOFTWARE DEVELOPMENT; OCEANOGRAPHIC DATA MANAGEMENT.

VISITED : DENMARK, U.S.S.R., NETHERLANDS. PUBLICATIONS & PATENTS; RES. PAPERS - 2, REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : SOFTWARE DEVEL. & DATA MANAGEMENT - 11.

1665

SHRI V V GOPALKRISHNAN; (B. MAY 25, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '73; M.SC.(TECH.) METEOROLOGY & OCEANOGRAPHY - ANDHRA '76.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., C.S.I.R., 1976-77; S.S.O. II, MINISTRY OF DEFENCE, 1977-78; S.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1978-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988; (PROJECT LEADER TO QA XBT PROGRAMME IN THE INDIAN OCEAN).

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6.

1666

SHRI PRAMOD KUMAR S GORE; (B. SEPTEMBER 21, 1944),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '64; M.SC. ZOOLOGY - KERALA '66.

SPECIALIZATIONS : MARINE MICROBIOLOGY; MARINE POLLUTION MICROBIOLOGY; MARINE FUNGI.

EXPERIENCE : SENIOR RESEARCH ASSISTANT AND BIOCHEMIST, DEPARTMENT OF FISHERIES, MAHARASHTRA STATE, 1966-68; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1968-86; (ALSO TRAINING IN MARINE MICROBIOLOGY, UNDER UNESCO, SINGAPORE, 1973); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MARATHI, HINDI, MALAYALAM, GUJARATI, KONKANI, KANNADA, ENGLISH.

VISITED : SINGAPORE.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17, APP. RES. - 17.

1667

SHRI SHYAM MURTI GUPTA; (B. JULY 3, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - LUCKNOW '76; M.SC. GEOLOGY - LUCKNOW '79.

SPECIALIZATIONS : MICROPALEONTOLOGY: SEDIMENTOLOGY; MARINE MICROPALEONTOLOGY; RADIOLARIA AND ICHTHYOLOGY.

EXPERIENCE : GEOLOGICAL ASSISTANT, U.P. P.W.D. RESEARCH INSTITUTE, LUCKNOW, 1982; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE MICROPALEONTOLOGY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

AWARDS & DISTINCTIONS : FELLOW, PALEONTOLOGICAL SOCIETY OF INDIA, 1984-87; MEMBER, INTERNATIONAL RADIOLARIAN PALEONTOLOGIST ASSOCIATION (UNESCO/IPA), CALIFORNIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. AND SURVEY OF NATURAL RESOURCES - 8.

1668

DR P HARIDAS; (B. JANUARY 22, 1945),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. ZOOLOGY - KERALA '70; PH.D. PLANKTONOLOGY - COCHIN '84.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; ENVIRONMENTAL SCIENCE.

EXPERIENCE : RESEARCH FELLOW, J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1970-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY AND ENVIRONMENTAL SCIENCE WITH EMPHASIS ON POLLUTION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 17, SURVEY OF NAT. RESOURCES - 17.

1669

SHRI B S INGOLE; (B. DECEMBER 12, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - MARATHWADA '79; M.SC. FISHERIES - KOKAN KRISHI VIDYAPEETH '82.

SPECIALIZATIONS : AQUACULTURE; ANTARCTIC KRILL BIOLOGY.

EXPERIENCE : J.R.F., MARINE BIOLOGICAL RESEARCH STATION, RATNAGIRI 1979-81; J.T.A. AND SCIENTIST B, N.I.O., 1981-89; SCIENTIST C, N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : RESEARCH IN AQUACULTURE.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : KENYA, SEYCHELLES, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, R & D MGMT. - 8, SURVEY OF NATURAL RESOURCES - 4, TECHNOLOGY TRANSFER - 3.

1670

SHRI SRIDHAR D IYER; (B. JANUARY 3, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - BOMBAY '79; M.SC. GEOLOGY - BARODA '81.

SPECIALIZATIONS : MARINE GEOLOGY; PETROLOGY; ELECTRON PROBE MICROANALYSIS.

EXPERIENCE : ASSISTANT TEACHER, S.K. S.V. MANDIR, BOMBAY, 1981-82; SCIENTIST B, N.I.O., 1983-88; (ALSO TRAINING IN ELECTRON MICROPROBE, FRANCE, 1983); SCIENTIST C, N.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : RESEARCH, OPERATION AND MAINTENANCE OF MICROPROBE.

LANGUAGES : TAMIL, HINDI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : ABSTRACTS - 6, PAPERS - 12, REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, MAINTENANCE - 7, TEACHING - 1.

1671

DR T G JAGTAP; (B. JUNE 1, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. CHEMISTRY - SHIVAJI '73; B.SC. BOTANY - SHIVAJI '74; M.SC. BOTANY - SHIVAJI '76; PH.D. BOTANY - SHIVAJI '85.

SPECIALIZATIONS : MANGROVE ECOLOGY; REMOTE SENSING; SEAWEED ECOLOGY; SCUBA DIVING.

EXPERIENCE : RESEARCH FELLOW, J.S.A., S.S.A. AND SCIENTIST B, N.I.O.,1976-90; (ALSO UNESCO SPONSORED ADVANCED TRAINING IN REMOTE SENSING TECHNIQUES APPLIED TO MANGROVE STUDIES, THAILAND, 1983; SEAWEED SURVEY, SEYCHELLES, 1984; TRAINING IN SCUBA DIVING, INDIAN NAVY, 1984; TRAINING IN MARINE SAMPLING TECHNIQUES AND ADVANCED SCUBA DIVING, U.S.A. AND MEXICO, 1984; SURVEY OF LITTORAL AND SUBLITTORAL FLORA OF MAURITIUS COAST, 1987); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : SURVEY OF NATURAL RESOURCES; ECOLOGY OF MARINE MACROPHYTES.

LANGUAGES : MARATHI, HINDI, KONKANI, SANSKRIT, ENGLISH.

VISITED : THAILAND, SEYCHELLES, U.S.A., MEXICO, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 10, PROCESSES DEVELOPED - 1, PROCESSES UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 14, SURVEY OF NATURAL RESOURCES (ECOLOGY OF MARINE MACROPHYTES) - 14.

1672

DR JIYALAL RAM M JASWAR; (B. JANUARY 1, 1953),

SCIENTIST C, N.I.O. REGIONAL CENTRE, BOMBAY, (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA);

QUALIFICATIONS : B.SC. BOTANY - BOMBAY '80; PH.D. APPLIED BOTANY - BOMBAY '85.

SPECIALIZATIONS : PLANKTONOLOGY; MARINE POLLUTION; PHYTOPLANKTONOLOGY.

EXPERIENCE : FIELD ASSTT., J.L.A., S.L.A. AND J.T.A., N.I.O. BOMBAY 1975-84; FARM SUPTD., CIFE, BOMBAY 1984-88; SCIENTIST B, N.I.O., 1988-91; SCIENTIST C, N.I.O. SINCE NOVEMBER, 1991.

PRESENT ACTIVITIES : RESEARCH ON VARIOUS ASPECTS OF POLLUTION, BIOLOGICAL OCEANOGRAPHY AND MARINE POLLUTION.

LANGUAGES : HINDI, ENGLISH.

VISITED : ANTARCTICA, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH. REPORTS - 22, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 17.

1673

MISS PRATIMA JAUHARI; (B. JUNE 6, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KUMAUN '78; M.SC. GEOLOGY - KUMAUN '80; PH.D GEOLOGY - KUMAUN '88.

SPECIALIZATIONS : MARINE GEOLOGY; POLYMETALLIC NODULES.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988; (ALSO TRAINING IN W.GERMANY UNDER INDO-FRG PROJECT).

PRESENT ACTIVITIES : BASIC RESEARCH.

LANGUAGES : HINDI, ENGLISH.

VISITED : W.GERMANY, MAURITIUS, SPAIN.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 10.

1674

MRS K V JAYALAKSHMY; (B. DECEMBER 1, 1956),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '77; M.SC. STATISTICS - KERALA '79.

SPECIALIZATIONS : DATA ANALYSIS.

EXPERIENCE : JUNIOR LECTURER, ST. TERESA'S' COLLEGE, 1979-81; STATISTICAL OFFICER (B) AND SCIENTIST B, N.I.O., 1981-86; SCIENTIST C, N.I.O. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : DATA ANALYSIS.

LANGUAGES : TAMIL, MALAYALAM, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, TEACHING - 2.

1675

SHRI K ANTONY JOSEPH; (B. JULY 27, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '74; M.SC. PHYSICS (ELECTRONICS) - BOMBAY '81.

SPECIALIZATIONS : MICROPROCESSOR BASED INSTRUMENTATION.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, N.I.O., 1979-88; SCIENTIST C, N.I.O. SINCE JUNE, 1988.

PRESENT ACTIVITIES : MICROPROCESSOR BASED INSTRUMENTATION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 6, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 11, TECH. DEV. - 11, PRODUCTION - 1.

1676

DR A N KADAM; (B. MAY 5, 1949),

SCIENTIST C, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - PUNE '71; M.SC. ORGANIC CHEMISTRY - PUNE '79; PH.D. ORGANIC CHEMISTRY - PUNE '82.

SPECIALIZATIONS : ORGANIC POLLUTANTS; ANALYTICAL CHEMISTRY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., N.C.L., PUNE, 1972-83; SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : ANALYTICAL ASPECTS IN OCEANOGRAPHY; OIL POLLUTION STUDIES.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 19, TECH REPORTS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 9, R & D MGMT. - 5.

1677

DR S M KARISIDDAIAH; (B. APRIL 22, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MYSORE '71; M.SC. GEOLOGY - KARNATAK '73; CERTIFICATE IN FRENCH LANGUAGE - KARNATAK '75; PH.D. PETROLOGY - KARNATAK '80.

SPECIALIZATIONS : PETROLOGY; MARINE GEOLOGY.

EXPERIENCE : J.R.F. AND S.R.F., KARNATAK UNIV., 1973-77; S.S.A. AND SCIENTIST B, N.I.O., 1977-86; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN OCEAN FLOOR BASALTS AND MARINE MANGANESE NODULES & SEDIMENTS; MARINE GEOPHYSICAL SURVEYS.

LANGUAGES : KANNADA, HINDI, ENGLISH, FRENCH.

VISITED : MAURITIUS, W.GERMANY, DENMARK.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH.REPORTS - 6, ABSTRACTS - 6.

AWARDS & DISTINCTIONS : FELLOW, GEOLOGICAL SOCIETY OF INDIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 13.

1678

SHRI N H KHADGE; (B. JANUARY 27, 1960),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SHIVAJI '80; M. TECH. APPLIED GEOLOGY - ROORKEE '83.

SPECIALIZATIONS : MARINE GEOLOGY; PETROLEUM GEOLOGY.

EXPERIENCE : SCIENTIST B, N.I.O.,1984-89; SCIENTIST C, N.I.O. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : DATA PROCESSING & PROGRAMMING; GEOCHEMISTRY.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, COMPUTER PROCESSING - 6.

1679

SHRI VIJAY N KODAGALI; (B. JANUARY 18, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - KARNATAK '78; M.SC. APPLIED GEOLOGY - KARNATAK '81; CERTIFICATE IN GERMAN - KARNATAK '80.

QUALIFICATIONS : B.SC. GEOLOGY - KARNATAK '78; M.SC. APPLIED GEOLOGY - KARNATAK '81; CERTIFICATE IN GERMAN - KARNATAK '80.

SPECIALIZATIONS : MARINE GEOLOGY; GEOMORPHOLOGY AND EXPLORATION OF POLYMETALLIC NODULES; COMPUTER PROGRAMMING; MULTIBEAM SWATH BATTERY METRY; DATA PROCESSING.

EXPERIENCE : LECTURER, P.G. CENTRE FOR TECHNICAL STUDIES, SANDUR, 1982; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : UNDERWATER DATA PROCESSING AND GEOMORPHOLOGICAL STUDIES IN CENTRAL INDIAN OCEAN.

LANGUAGES : KANNADA, HINDI, MARATHI, ENGLISH.

VISITED : SINGAPORE, MAURITIUS, MALDIVES, GERMANY, SPAIN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8, COMPUTER PROCESSING - 6.

1680

SHRI K SREE KRISHNA; (B. OCTOBER 15, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '79; M.SC.(TECH.) GEOPHYSICS - ANDHRA '82.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : SEISMOLOGIST, G.S.I (OIL CO.), 1983-84; SCIENTIST B, N.I.O. 1984-89; SCIENTIST C, N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : DATA COLLECTION, PROCESSING AND INTERPRETATION.

LANGUAGES : TELUGU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 5, CONSULTANCY - 2.

1681

SHRI R J KRISHNAMACHARYULU; (B. MARCH 5, 1951),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KARNATAK '70; B.E. TELECOMM ENGINEERING - KARNATAK '74; M.TECH. PHYSICAL ENGINEEREING - I.I.SC., BANGALORE '76.

SPECIALIZATIONS : ELECTRONICS; INSTRUMENTATION; CIRCUITS AND SYSTEMS.

EXPERIENCE : PROJECT ASSISTANT AND SCIENTIFIC ASSISTANT, I.I.SC., BANGALORE, 1977-78; JUNIOR ENGINEER, ASSOCIATED CEMENT CO. LTD., BOMBAY (H.0.), 1978-79; S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1980-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : MAINTENANCE, DESIGN AND DEVELOPMENT OF INSTRUMENTS.

LANGUAGES : TELUGU, KANNADA, HINDI, ENGLISH.

VISITED : KENYA.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS -2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, CONSTRUCTION - 10, OPERATION - 10, TESTING - 10, MAINTENANCE-10.

1682

DR CHANDRALATA RAGHU KUMAR; (B. JULY 19, 1946),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADRAS '66; M.SC. BOTANY - MADRAS 68; PH.D. PLANT PATHOLOGY - MADRAS '74.

SPECIALIZATIONS : PATHOLOGY OF ALGAE & MARINE ORGANISMS; PHYSIOLOGY OF FUNGI & MICROBIOLOGY.

EXPERIENCE : P.D.F.-U.G.C, 1974-76; SCIENTIST, INST. FOR MARINE RESEARCH - WEST GERMANY, 1976-81; POOL OFFICER AND SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE FUNGI.

LANGUAGES : GUJARATI, TAMIL, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, CANADA, JAPAN, ENGLAND, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 22.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 5, TEACHING - 5.

1683

SHRI K ASHOK KUMAR; (B. JULY 8, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - OSMANIA '80; M.SC.(TECH.) DIGITAL ELECTRONICS MICROPROCESSORS - OSMANIA '83.

SPECIALIZATIONS : DIGITAL ELECTRONICS; PERSONAL COMPUTERS; MICROPROCESSORS.

EXPERIENCE : SCIENTIST B, N.I.O., 1984-89; SCIENTIST C, N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : MAINTENANCE.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 3, SPONSERED PROJECT REPORTS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 2, MAINTENACE - 4, COMPUTERC PROC. - 1, ADMINISTRATION - 1.

1684

DR M DILEEP KUMAR; (B. NOVEMBER 10, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

ST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '75; M.SC. CHEMICAL OCEANOGRAPHY - ANDHRA '78; PH.D - ANDHRA '88.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., S.R.F., TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1979-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TELUGU, HINDI, EGNLISH.

VISITED : CANADA, GERMANY, WEST INDIES.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 1.

AWARDS & DISTINCTIONS : CSIR YOUNG SCIENTIST AWARD, 1988.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 12.

1685

SHRI M R RAMESH KUMAR; (B. MAY 31, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - CALICUT '79; M.SC. METEOROLOGY - COCHIN '81.

SPECIALIZATIONS : AIR-SEA INTERACTION; REMOTE SENSING; MONSOON DYNAMICS.

EXPERIENCE : J.R.F., COCHIN UNIV., 1982; SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN REMOTE SENSING.

LANGUAGES : KONKANI, MALAYALAM, HINDI, ENGLISH.

VISITED : KENYA, MAURITIUS, ANTARCTICA, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 13, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 8.

1686

DR S PRASANA KUMAR; (B. APRIL 25, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '78; M.SC. OCEANOGRAPHY - COCHIN '80; PH.D. PHYSICAL OCEANOGRAPHY - COCHIN '87.

SPECIALIZATIONS : COASTAL OCEANOGRAPHY; UNDERWATER ACOUSTICS; HYDROGRAPHY.

EXPERIENCE : J.R.F., COCHIN UNIV., 1980-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN COASTAL OCEANOGRAPHY AND UNDERWATER ACOUSTICS.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, TAMIL, BENGALI.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 4, ARTICLES - 1, BOOK REVIEW - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

1687

DR(MRS) L KRISHNA KUMARI; (B. AUGUST 4, 1945),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - KERALA '66; M.SC. ZOOLOGY - KERALA '69; PH.D. APPLIED BIOLOGY - BOMBAY '85.

SPECIALIZATIONS : MOLLUSCS; BIOENERGETICS; ZOOPLANKTONOLOGY; MARINE POLLUTION.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1972-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN AQUACULTURE.

LANGUAGES : MALAYALAM, HINDI, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 42, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 18.

1688

MRS P P MEENAKSHI KUNJAMMA; (B. JANUARY 21, 1938),

SCIENTIST C, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE BIOLOGY - KERALA '69.

SPECIALIZATIONS : ZOOPLANKTONOLOGY; AQUACULTURE; COPEPODOLOGY; MARINE BIOLOGY.

EXPERIENCE : S.L.A., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1964-86; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH; RURAL DEVELOPMENT THROUGH AQUACULTURE; SURVEY OF NATURAL RESOURCES.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

AWARDS & DISTINCTIONS : FELLOW, MARINE BIOLOGICAL ASSOCIATION OF INDIA; FOUNDER MEMBER, WORLD ASSOCIATION OF COPEPODOLOGISTS.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, APP. RES. - 2, SURVEY OF NATURAL RESOURCES - 5.

1689

DR(MISS) P A LOKABHARATHY; (B. JANUARY 26, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '71; M.SC. MARINE BIOLOGY - COCHIN '73; DOCTORATE IN MICROBIOLOGY - FRANCE '79.

SPECIALIZATIONS : MARINE BIOLOGY; MICROBIOLOGY.

EXPERIENCE : SCIENTIST B, N.I.O., 1980-85; SCIENTIST C, N.I.O. SINCE APRIL, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : TAMIL, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 27, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 6.

1690

SHRI SUKOMAL MANDAL; (B. APRIL 27, 1955),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.TECH. AERONAUTICAL ENGINEERING - I.I.T., KHARAGPUR '79; M.TECH. OCEAN ENGINEERING - I.I.T., MADRAS '81.

SPECIALIZATIONS : DESIGN OF OFFSHORE PLATFORMS; PHYSICAL OCEANOGRAPHY; OFFSHORE FOUNDATIONS.

EXPERIENCE : SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : NETHERLANDS, NORWAY.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5, DESIGN - 5, TESTING - 5, DATA PROCESSING - 4, COMPUTER PROGRAMMING - 7.

1691

DR A MASCARENHAS; (B. FEBRUARY 10, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '73; M.SC. GEOLOGY - BOMBAY '75; DOCTEUR IN SCIENCES - FRANCE.

SPECIALIZATIONS : MARINE GEOLOGY; GEOCHEMISTRY.

EXPERIENCE : JUNIOR GEOLOGIST, V.S. DEMPO AND CO. PVT. LTD., 1976; J.R.F., S.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1976-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH, PORTUGUESE, FRENCH.

VISITED : NEPAL, BHUTAN, FRANCE, SPAIN, PORTUGAL, ITALY, SWITZERLAND, AUSTRIA, GERMANY, DENMARK, SWEDEN, BELGIUM, HOLLAND, ENGLAND, SCOTLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 7, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 2.

1692

DR S G P MATONDKAR; (B. MARCH 16, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SHIVAJI '74; M.SC. MICROBIOLOGY - BOMBAY '81; PH.D. APPLIED BIOLOGY '87.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; ECOSYSTEM ANALYSIS; MICROORGANISMS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, N.I.O., 1975-89; SCIENTIST C, N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : STUDY OF SOUTHERN OCEAN & ANTARCTICA FOR MANAGEMENT OF KRILL RESOURCES.

LANGUAGES : MARATHI, HINDI, SANSKRIT, KONKANI, ENGLISH.

VISITED : MAURITIUS, ANTARCTICA, W.GERMANY, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 2, ARTICLES - 2, RADIO TALKS - MANY, PROCESSES DEVELOPED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, TEACHING - 1, SURVEY OF NATURAL RESOURCES - 2, COMPUTER PROCESSING - 1.

1693

DR(MISS) M R MENEZES; (B. MARCH 20, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - NAGPUR '70; M.SC. APPLIED BIOLOGY - BOMBAY '79; PH.D. APPLIED BIOLOGY - BOMBAY '82.

SPECIALIZATIONS : BIOCHEMICAL TAXONOMY; MORPHOLOGY; ECOLOGY; SEROLOGY; POPULATION GENETICS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST B, N.I.O., 1971-89; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1989; (ALSO STUDY OF THE LATEST TECHNIQUES IN POPULATION GENETICS, JAPAN, 1986).

PRESENT ACTIVITIES : POPULATION GENETICS WITH REGARD TO MARINE ORGANISMS.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 21.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 15.

1694

MRS ANALIA MENEZES MESQUITA; (B. NOVEMBER 16, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BANGALORE '73; M.SC. - BOMBAY '76; DIPLOMA IN MARINE POLLUTION CHEMISTRY - LIVERPOOL UNIVERSITY, U.K. '90.

SPECIALIZATIONS : MARINE POLLUTION.

EXPERIENCE : J.R.F., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1978-89; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : MARINE POLLUTION STUDIES WITH SPECIAL REFERENCE TO TRACE METALS.

LANGUAGES : KONKANI, HINDI, ENGLISH.

VISITED : AUSTRALIA, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

1695

DR ABHAY MUDHOLKAR; (B. JANUARY 26, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - POONA '79; M.SC. GEOLOGY - POONA '81, PH.D. GEOLOGY - PUNE '88.

SPECIALIZATIONS : GEOLOGICAL REMOTE SENSING: FERROMANGANESE NODULES.

EXPERIENCE : J.R.F., POONA UNIV., 1982-83; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : SURVEY OF FERROMANGANESE NODULES AND RESEARCH IN GEOCHEMISTRY OF ASSOCIATED SEDIMENTS.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, SURVEY OF NATURAL RESOURCES - 4.

1696

DR RANADHIR MUKHOPADHYAY; (B. FEBRUARY 14, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BURDWAN '77; M.SC. GEOLOGY - CALCUTTA '79; PH.D - CALCUTTA '88.

SPECIALIZATIONS : DEEP SEA MINERAL RESOURCES; OCEAN TECTONICS.

EXPERIENCE : J.R.F., CALCUTTA UNIV., 1981-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : INVOLVED IN TRACING OUT FORMATIONAL ASPECTS OF SEAMOUNTS IN THE INDIAN OCEAN AND THEIR BEARING ON CHARACTERISATION OF FERROMANGANESE NODULE DEPOSITS.

LANGUAGES : BENGALI, HINDI, ENGLISH, ASSAMESE.

VISITED : SINGAPORE, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORT - 1, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, SURVEY OF NATURAL RESOURCES - 5, PLANNING - 1.

1697

SHRI V SURYANARAYANA MURTY; (B. JUNE 5, 1957),

SCIENTIST C, INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. MARINE SCIENCES - ANDHRA UNIV. '79.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY

EXPERIENCE : J.S.A. AND SCIENTIST B. N.I.O., 1980-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988

PRESENT ACTIVITIES : R & D IN PHYSICAL OCEANOGRAPHY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4. TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7.

1698

SHRI P DIVAKAR NAIDU; (B. JUNE 1, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '79; M.SC. APPLIED GEOLOGY - SRI VENKATESWARA '81.

SPECIALIZATIONS : NEARSHORE SEABED SURVEYS; HYDROGEOLOGY; PLANKTONIC FORAMINIFERA.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : COLLECTION OF GEOLOGICAL AND GEOPHYSICAL DATA.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., CONSULTANCY, SURVEY OF NATURAL RESOURCES, PLANNING AND COMPUTER PROCESSING - (TOTAL : 5 YEARS).

1699

SHRI S R SREEKUMARAN NAIR; (B. DECEMBER 7, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '70; M.SC. MARINE BIOLOGY - KERALA '72.

SPECIALIZATIONS : PRAWN CULTURE; ZOOPLANKTON DISTRIBUTION; BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : RESEARCH FELLOW, J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1972-88; (ALSO ADVANCED TRAINING, U.S.A., 1980-82); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, TAMIL, KONKANI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 39, TECH. REPORTS - 7, ARTICLES - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18, APP. RES. - 18, SURVEY OF NATURAL RESOURCES - 18, TECHO. TRANSFER - 15.

1700

DR PRADIP VAIKUNTH NARVEKAR; (B. OCTOBER 10, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '73; M.SC. CHEMISTRY - BOMBAY '79; PH.D. MARINE CHEMISTRY - BOMBAY '87.

SPECIALIZATIONS : CHEMISTRY; CHEMICAL OCEANOGRAPHY; ESTUARINE CHEMISTRY; MARINE POLLUTION.

EXPERIENCE : LABORATORY ANALYST, UNION CARBIDE INDIA LTD., BOMBAY, 1973-74; S.L.A., J.T.A., S.S.A. AND SCIENTIST B, N.I.O., 1975-88; SCIENTIST C, N.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : RESEARCH IN CHEMICAL OCEANOGRAPHY.

LANGUAGES : KONKANI, HINDI, MARATHI, GUJARATI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 14, RADIO TALKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. - 15, PILOT PLANT - 1, QUALITY CONTROL - 1, COMPUTER PROCESSING - 6.

1701

SHRI B NAGENDER NATH; (B. MAY 31, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - OSMANIA '78; M.SC. MARINE GEOLOGY - COCHIN '80.

SPECIALIZATIONS : MARINE GEOCHEMISTRY; SEDIMENTOLOGY.

EXPERIENCE : J.R.F., DEPARTMENT OF MARINE SCIENCES, COCHIN, 1980-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOLOGY.

LANGUAGES : TELUGU, HINDI, MALAYALAM, ENGLISH, RUSSIAN.

VISITED : SINGAPORE, MAURITIUS, GERMANY, U.K., JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 1, ARTICLES - 1, POPULAR SCIENCE BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, DESIGN - 1, R & D MANAGEMENT - 3.

1702

SHRI P S PARAMESWARAN; (B. SEPTEMBER 23, 1955),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KERALA '76; M.SC. ORGANIC CHEMISTRY - KERALA '78; P.G. DIPLOMA IN RUSSIAN LANGUAGE - COCHIN '81.

SPECIALIZATIONS : CHEMISTRY OF NATURAL PRODUCTS; MARINE NATURAL PRODUCTS.

EXPERIENCE : LECTURER, ST. ALBERTS COLLEGE, ERNAKULAM, 1979-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; (DEPUTED FOR TRAINING IN MARINE NATURAL PRODUCTS CHEMISTRY, STEVENS INSTITUTE OF TECHNOLOGY, N.J., U.S.A., 1986-87). SCIENTIST C, N.I.O SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE NATURAL PRODUCTS.

LANGUAGES : MALAYALAM, HINDI, KANNADA, ENGLISH, RUSSIAN.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, PRESENTED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, OPERATION - 5, TEACHING - 3, SURVEY OF NATURAL RESOURCES - 8.

1703

DR J N PATTAN; (B. JUNE 1, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - KARNATAK '77; M.SC. GEOLOGY - KARNATAK '79; PH.D. GEOLOGY - GULBARGA '85.

SPECIALIZATIONS : GEOCHEMISTRY OF NODULES AND DEEP SEA SEDIMENTS.

EXPERIENCE : J.R.F., P.G. CENTRE, SANDUR, 1980-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DEEP SEA EXPLORATION OF MANGANESE NODULES.

LANGUAGES : KANNADA, HINDI, TELUGU, ENGLISH.

VISITED : MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8.

1704

SHRI S J D VARA PRASAD; (B. JANUARY 20, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - NAGARJUNA '77; M.SC. CHEMICAL OCEANOGRAPHY - ANDHRA '79; B.L.I.SC. LIBRARY & INFORMATION SCIENCE - ANDHRA '81; DIPLOMA IN FRENCH - ANDHRA '81.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY; INFORMATION DISSEMINATION; EDITING AND PUBLICATION.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : CHEMICAL OCEANOGRAPHY AND MARINE POLLUTION STUDIES.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : BROCHURES - 5, BIBLIOGRAPHIES - 1, DIRECTORIES - 2, TECHNICAL REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : EXTENSION - 5, PUBLIC RELATIONS - 5, PUBLICATIONS - 5, CHEMICAL OCEANOGRAPHY - 2.

1705

DR S RAGHUKUMAR; (B. MAY 26, 1946),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADRAS ' 65; M.SC. BOTONY - MADRAS '67; PH.D. BOTONY - MADRAS '73.

SPECIALIZATIONS : MARINE FUNGI; BIOLOGY AND MICROBIOLOGY.

EXPERIENCE : P.D.F., C.S.I.R., 1974-76; SCIENTIST, INSTITUTE FOR MARINE SCIENCE, BREMERHAVEN, W.GERMANY, 1976-81; POOL OFFICER AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE FUNGI; GUIDE FOR PH.D. STUDENTS OF GOA UNIV.

LANGUAGES : TAMIL, TELUGU, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY, ENGLAND, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 5, TEACHING - 8.

1706

SHRI K A KAMESH RAJU; (B. JULY 10, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '78; M.SC. MARINE GEOPHYSICS - ANDHRA '80.

SPECIALIZATIONS : MARINE GEOPHYSICS; COMPUTER PROGRAMMING.

EXPERIENCE : SENIOR GEOPHYSICAL ASSISTANT, O.N.G.C., MADRAS, 1981-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O. 1982-88; SCIENTIST C, N.I.O. SINCE MARCH, 1988; (ALSO TRAINING IN G.M.S. MAPPING SYSTEM SOFTWARE, NORWAY, 1986).

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOPHYSICS; COMPUTER PROGRAMMING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : NORWAY, FRG.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8, PLANNING - 6, COMPUTER PROCESSING - 8.

1707

DR N RAMAIAH; (B. JUNE 9, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.F.SC. FISHERIES SCIENCE - BANGALORE '79; M.F.SC. FISH PRODUCTION & MANAGEMENT - BANGALORE '82; PH.D. MICROBIOLOGY - RANI DURGAVATI VISHWAVIDYALAYA, JABALPUR '90

SPECIALIZATIONS : FISH PATHOLOGY; MICROBIAL POLLUTION MONITORING; MARINE MICROBIAL ECOLOGY.

EXPERIENCE : RESEARCH ASSISTANT, COLLEGE OF FISHERIES, MANGALORE, 1981-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE MICROBIOLOGY.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 3.

1708

DR T V RAMANAMURTY; (B. NOVEMBER 10, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '75; M.SC. APPLIED MATHEMATICS - ANDHRA '77; PH.D. APPLIED MATHEMATICS (FLUID MECHANICS) - I.I.T., BOMBAY '80.

SPECIALIZATIONS : FLUID MECHANICS; PHYSICAL OCEANOGRAPHY; UNDERWATER ACOUSTICS.

EXPERIENCE : J.R.F. AND P.D.F., I.I.T., BOMBAY, 1977-81; LECTURER, GOA ENGINEERING COLLEGE, FARNAGUDI, GOA, 1981-82; RESEARCH ASSOCIATE AND SCIENTIST B, N.I.O., 1982-89; SCIENTIST C, N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : RESEARCH ON UNDERWATER ACOUSTICS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 26, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES., TEACHING AND COMPUTER PROCESSING - (TOTAL : 10 YEARS).

1709

SHRI V RAMASWAMY; (B. JULY 4, 1957),

SCIENTIST C, INSTITUTE OF OCEANOGRAPHY, GOA.

SPECIALIZATIONS : SEDIMENTARY PROCESSES; MINERAL EXPLORATION.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988; (ALSO TRAINING IN ACOUSTIC NAVIGATION U.S.A.).

PRESENT ACTIVITIES : RESEARCH IN SEDIMENTARY PROCESSES USING SEDIMENT TRAPS; RESEARCH IN MINERAL EXPLORATION.

LANGUAGES : HINDI, TAMIL, ENGLISH.

VISITED : U.S.A., GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8.

1710

SHRI T RAMPRASAD; (B. JULY 15, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '78; M.SC.(TECH) GEOPHYSICS - ANDHRA '81.

SPECIALIZATIONS : MARINE GEOPHYSICS; PREDICTION SEISMOLOGY; COMPUTER PROGRAMMING.

EXPERIENCE : TECHNICAL ASSISTANT, N.G.R.I., HYDERABAD, 1982; TRAINEE SCIENTIST, AND SCIENTIST B, N.I.O. 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : ACQUISITION, PROCESSING AND INTERPRETATION OF GEOPHYSICAL DATA, SEISMIC DATA PROCESSING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : SEYCHELLES, MAURITIUS, NORWAY, W. GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, SURVEY OF NATURAL RESOURCES - 7, COMPUTER PROCESSING - 8, SEISMIC DATA PROCESSING - 4, PLANNING - 4.

1711

SHRI GOVIND H RANADE; (B. JUNE 2, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - OSMANIA '78; M.SC.(TECH) APPLIED ELECTRONICS - OSMANIA '81.

SPECIALIZATIONS : UNDERWATER ACOUSTICS; MARINE INSTRUMENTATION.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MARINE GEOLOGICAL & GEOPHYSICAL SURVEYS; OCEAN BOTTOM MAPPING.

LANGUAGES : MARATHI, HINDI, KONKANI, TELUGU, ENGLISH.

VISITED : U.S.A., SPAIN, FINLAND, W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6, TECH. DEV. - 8, R & D MGMT. - 8, MAINTENANCE - 8, ADMN. - 8.

1712

SHRI B PRABHAKARA RAO; (B. JUNE 30, 1955),

SCIENTIST C, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. PHYSICAL OCEANOGRAPHY - ANDHRA '77.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY; COASTAL OCEANOGRAPHY; ACOUSTICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1979-91; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : COLLECTION AND INTERPRETATION OF DATA ON PHYSICAL OCEANOGRAPHY WITH REGARD TO BAY OF BENGAL.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 8.

1713

SHRI M M MALLESWARA RAO; (B. AUGUST 10, 1948),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '68; M.SC. APPLIED MATHEMATICS - ANDHRA '70.

SPECIALIZATIONS : COMPUTER SOFTWARE DEVELOPMENT.

EXPERIENCE : J.L.A. AND S.L.A., N.G.R.I. 1973-78; S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O.1978-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : COMPUTER SOFTWARE DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 12.

1714

SHRI PRATTIPATI SIVASANKARA RAO; (B. DECEMBER 10, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - ANDHRA '78; M.SC. TECH. APPLIED GEOLOGY - ANDHRA '81.

SPECIALIZATIONS : MINERALOGY; GEOCHEMISTRY; EXPLORATION OF MARINE MINERALS.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : W. GERMANY, MALTA, MAURITIUS, U.S.A., CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8, PLANNING - 8.

1715

SHRI SURYAVANSHI A K RAO; (B. OCTOBER 13, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1716

SHRI T V NARASIMHA RAO; (B. NOVEMBER 28, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '73; M.SC. (TECH.) METEOROLOGY AND OCEANOGRAPHY - ANDHRA '76.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY; COASTAL ZONE MANAGEMENT.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.I.O. 1977-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN PHYSICAL OCEANOGRAPHY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS -10, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 13.

1717

DR V P RAO; (B. OCTOBER 10, 1955),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - ANDHRA '77; M.SC. MARINE SCIENCE - ANDHRA '79; PH.D MARINE GEOLOGY - ANDHRA '89.

SPECIALIZATIONS : MARINE SEDIMENTOLOGY AND PHOSPHORITES.

EXPERIENCE : J.S.A., S.S.A., TRAINEE SCIENTIST, SCIENTIST B, N.I.O., 1980-88; SCIENTIST C. N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON CARBONATE PETROLOGY AND PHOSPHORITES.

LANGUAGES : TELUGU, HINDI, ENGLISH, FRENCH.

VISITED : MALTA, U.S.A., FRANCE, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 20.

AWARDS & DISTINCTIONS : ROSTSCA YOUNG SCIENTIST AWARD, 1989; CSIR YOUNG SCIENTIST AWARD, 1990

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

1718

SHRI P VIJAYAKUMAR RATHOD; (B. DECEMBER 1, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - KARNATAK '75; M.SC. MARINE BIOLOGY - KARNATAK '77.

SPECIALIZATIONS : BENTHICS; FISHERIES.

EXPERIENCE : RES. SCHOLAR, C.M.E.R.I., 1979-80; SCIENTIST B, N.I.O. 1980-91; SCIENTIST C, N.I.O. SINCE FEBRUARY. 1991.

PRESENT ACTIVITIES : RESEARCH AND DEVELOPMENT.

LANGUAGES : KANNADA, ENGLISH, HINDI, MARATHI, TELAGU.

VISITED : ANTARCTICA.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 3. ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 11.

1719

SHRI G VENKATA REDDY; (B. JUNE 15, 1951),

SCIENTIST C. NATIONAL INSTITUTE OF OCEANOGRAPHY. GOA.

QUALIFICATIONS : B.SC. - ANDHRA '73; M.SC.(TECH.) METEOROLOGY & OCEANOGRAPHY - ANDHRA '76.

SPECIALIZATIONS : OCEANOGRAPHIC DATA MANAGEMENT; PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1980-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : COMPUTER PROCESSING OF OCEANOGRAPHIC DATA AND DATA MANAGEMENT.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, REPORTS - 21.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, COMPUTER PROCESSING - 8.

1720

SHRI NALLA PURNA CHANDER REDDY; (B. JUNE 11, 1958),

SCIENTIST C, REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC. MARINE GEOLOGY - COCHIN '79; PG CERTIFICATE (GERMAN) - COCHIN '81.

SPECIALIZATIONS : MARINE GEOLOGY; SEDIMENTOLOGY; MINERALOGY; GEOCHEMISTRY.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-90; SCIENTIST C. N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : MARINE GEOLOGY.

LANGUAGES : TELUGU, ENGLISH, HINDI, MALAYALAM, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 5, SURVEY OF NAT RES - 4

1721

DR M M SABNIS; (B. SEPTEMBER 26, 1942),

SCIENTIST C, N.I.O. REGIONAL CENTRE, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - BOMBAY '67; M.SC. BIOPHYSICS - BOMBAY '70; DIPLOMA IN BUSINESS MANAGEMENT - BOMBAY '80; PH.D. INORGANIC CHEMISTRY - BOMBAY '84.

SPECIALIZATIONS : ENVIRONMENTAL CHEMISTRY.

EXPERIENCE : CHEMIST, INSPECTORATE (INDIA) PVT. LTD., BOMBAY, 1970-71; CHEMIST, J. ALLEY AND COMPANY, BOMBAY, 1971-72; S.L.A., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1972-86; (ALSO HIGHER TRAINING IN FISH TECHNOLOGY, U.S.S.R., 1974-75); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN ENVIRONMENTAL CHEMISTRY.

LANGUAGES : MARATHI, HINDI, SANSKRIT, ENGLISH, RUSSIAN.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 5, R & D MANAGEMENT - 12, TESTING - 2, QUALITY CONTROL - 2.

1722

DR Y SADHURAM; (B. JUNE 15, 1954),

SCIENTIST C, NIO REGIONAL CENTRE, VISAKHAPATNAM (NATIONAL INSTITUTE OF OCEANOGRAPHY).

QUALIFICATIONS : B.SC. - ANDHRA ' 75; M.SC. METEOROLOGY - ANDHRA '78; PH.D. METEOROLOGY - ANDHRA '82.

SPECIALIZATIONS : ENVIRONMENTAL METEOROLOGY; AIR-SEA INTERACTION.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN AIR-SEA INTERACTION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 36.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7.

1723

MISS SUJATA SANZGIRY; (B. JANUARY 20, 1951),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY GOA.

QUALIFICATIONS : B.SC. - BOMBAY '71; M.SC. PHYSICAL CHEMISTRY - BOMBAY '73.

SPECIALIZATIONS : PHYSICAL CHEMISTRY; MARINE POLLUTION.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1976-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988; (ALSO HIGHER STUDIES ON MARINE POLLUTION AT CHALMERS UNIVERSITY OF TECHNOLOGY, GOTEBORG, SWEDEN ON SWEDISH GOVERNMENT SCHOLARSHIP).

PRESENT ACTIVITIES : RESEARCH ON CHEMICAL ASPECTS OF MARINE POLLUTION WITH SPECIAL REFERENCE TO TRACE METALS.

LANGUAGES : KONKANI, MARATHI, HINDI, ENGLISH, PORTGUESE, FRENCH, SWEDISH.

VISITED : SWEDEN, SRI LANKA, U.K., GERMANY, DENMARK, NORWAY, BELGIUM, FRANCE, SWITZERLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 14.

1724

MISS SUGANDHA D SARDESAI; (B. OCTOBER 1, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '71; M.SC. CHEMISTRY - BOMBAY '73.

SPECIALIZATIONS : PHYSICAL CHEMISTRY; CHEMICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A, SCIENTIST A AND SCIENTIST B, N.I.O., 1973-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R & D.

LANGUAGES : KONKANI, MARATHI, HINDI, ENGLISH.

VISITED : MALAYSIA, FINLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 17.

1725

SHRI M S S SARMA; (B. JULY 1, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '73; M.SC. OCEANOGRAPHY - ANDHRA '76.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., ANDHRA UNIV., 1978-80; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1980-91; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : RESEARCH IN PHYSICAL OCEANOGRAPHY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, APP. RES. - 7.

1726

SHRI Y V B SARMA; (B. JANUARY 17, 1960),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. PHYSICAL OCEANOGRAPHY - ANDHRA '81.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : SCIENTIST B, N.I.O., 1983-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON OCEAN-ATMOSPHERE INTERACTION AND CIRCULATION.

LANGUAGES : TELUGU, HINDI, KONKANI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 1.

1727

SHRI R V SHARMA; (B. JULY 14, 1951),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. - MARINE BIOLOGY & OCEANOGRAPHY - ANNAMALAI '73.

SPECIALIZATIONS : MARINE BIOLOGY; PLANKTONOLOGY; ECOLOGY; COPEPODOLOGY.

EXPERIENCE : S.L.A., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1966-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECHNICAL REPORT - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 2, SURVEY OF NATURAL RESOURCES - 5.

1728

SHRI RAHUL K SHARMA; (B. JUNE 1, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - BARODA '81.

SPECIALIZATIONS : MARINE GEOLOGY; EXPLORATION OF MARINE MINERALS; INTERPRETATION OF SEABED PHOTOGRAPHY; GEOTECHNICAL PROPERTIES OF SEDIMENTS.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SURVEYS FOR POLYMETALLIC NODULES.

LANGUAGES : PUNJABI, HINDI, GUJARATI, ENGLISH.

VISITED : SEYCHELLES, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, SYMPOSIA - 7, TECH. REPORTS - 12, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 9, SURVEY OF NATURAL RESOURCES - 9.

1729

DR S S C SHENOI; (B. MAY 30, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '78; M.SC. PHYSICAL OCEANOGRAPHY - COCHIN '80; PH.D. PHYSICAL OCEANOGRAPHY - COCHIN '84.

SPECIALIZATIONS : LAND-SEA INTERACTION; COASTAL CURRENTS; SHELFSEA DYNAMICS; OCEAN CIRCULATION.

EXPERIENCE : J.R.F., COCHIN UNIV., 1981-82; TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH IN COASTAL OCEANOGRAPHY.

LANGUAGES : KONKANI, HINDI, MALAYALAM, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 6, RADIO TALKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 7, CONSULTANCY - 3.

1730

SHRI M SHYAMPRASAD; (B. MAY 3, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. GEOLOGY - OSMANIA '78.

SPECIALIZATIONS : MARINE GEOLOGY; EXPLORATION OF MARINE MINERALS; STUDIES ON EXTRATERRESTRIAL MATTER.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O. 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SURVEY FOR POLYMETALLIC NODULES.

LANGUAGES : TELUGU, HINDI, KANNADA, ENGLISH.

VISITED : SEYCHELLES, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, APP. RES. - 8, SURVEY OF NATURAL RESOURCES - 8.

1731

SHRI Y KRISHNA SOMAYAJULU; (B. APRIL 11, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC - ANDHRA '73; M.SC.(TECH.) METEOROLOGY AND OCEANOGRAPHY - ANDHRA '76.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1977-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987; (ALSO TRAINING IN INSTRUMENT OPERATION, TOMOGRAPHY DATA ANALYSIS IN U.S.A.).

PRESENT ACTIVITIES : RESEARCH ON OCEAN ACOUSTIC TOMOGRAPHY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : MAURITIUS, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 15.

1732

SHRI A S SUBRAHMANYAM; (B. MARCH 21, 1952),

SCIENTIST C, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC.(TECH.) GEOPHYSICS - ANDHRA '75.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : J.R.F., J.S.A. AND S.S.A., N.G.R.I., HYDERABAD, 1976-83; SCIENTIST B, N.I.O., 1983-89; SCIENTIST C, N.I.O. SINCE MARCH, 1989.

PRESENT ACTIVITIES : ANALYSIS AND INTERPRETATION OF MARINE GEOPHYSICAL DATA.

LANGUAGES : TELUGU, HINDI. ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11.

1733

SHRI V SUBRAHMANYAM; (B. JUNE 1, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC.(TECH.) GEOPHYSICS - ANDHRA '76.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : J.R.F., ANDHRA UNIVERSITY, ANDHRA, 1977-79; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1979-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MARINE GEOPHYSICAL SURVEYS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : W. GERMANY, E. GERMANY, DENMARK, SINGAPORE, U.S.S.R.

PUBLICATIONS & PATENTS : RES PAPERS - 14, TECH. REPORTS - 18, ABSTRACTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11.

1734

SHRI M SUDHAKAR; (B. DECEMBER 20, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '78; M.SC.(TECH.) APPLIED GEOLOGY - I.S.M., DHANBAD '81; M.SC.(ECON.) SEA-USE LAW, ECONOMICS AND POLICY MAKING - LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE, U.K '90.

SPECIALIZATIONS : MARINE GEOLOGY; COMPUTER PROCESSING; GEOSTATISTICS; POLYMETALLIC NODULE CHEMISTRY; LAW OF THE SEA.

EXPERIENCE : TRAINEE SCIENTIST AND SCIENTIST B, N.I.O., 1982-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SURVEY AND EXPLORATION FOR POLYMETALLIC NODULES; RESEARCH & DEVELOPMENT.

LANGUAGES : TELUGU, HINDI, KANNADA, BENGALI, ENGLISH.

VISITED : MAURITIUS, U.S.A., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, SURVEY OF NATURAL RESOURCES - 8, COMPUTER PROCESSING - 6.

1735

SHRI T SURESH; (B. MARCH 25, 1959),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.TECH. ELECTRONICS - COCHIN '84.

SPECIALIZATIONS : COMPUTER MAINTENANCE AND COMPUTER PROCESSING.

EXPERIENCE : SCIENTIST B, N.I.O., 1985-88; SCIENTIST C, N.I.O. SINCE JANUARY, 1988; (ALSO TRAINING ON NORSK DATA COMPUTER AT NORWAY FOR FOUR MONTHS IN 1988).

PRESENT ACTIVITIES : COMPUTER MAINTENANCE AND COMPUTER PROCESSING.

LANGUAGES : MALAYALAM, HINDI, KONKANI, ENGLISH.

VISITED : NORWAY, FRANCE, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 3, COMPUTER PROCESSING - 3.

1736

DR A SURYANARAYANA; (B. JUNE 2, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. PHYSICAL OCEANOGRAPHY - ANDHRA '79; PH.D. OCEANOGRAPHY - ANDHRA '88.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.S.A. AND SCIENTIST B, N.I.O., 1980-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON PHYSICAL OCEANOGRAPHY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : POLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5.

1737

DR A B VALSANGKAR; (B. JULY 2, 1950),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - SHIVAJI '72; M.SC. APPLIED GEOLOGY - I.I.T., BOMBAY '75; PH.D. GEOLOGY - I.I.T., BOMBAY '80.

SPECIALIZATIONS : MARINE GEOLOGY; GEOCHEMISTRY OF ROCKS, SEDIMENTS AND PMN; PETROLOGY OF ROCKS; PALEOMAGNETISM OF ROCKS AND PMN.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1980-87; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D IN MARINE GEOLOGY, SURVEYS AND CRUISE PLANNING & MONITORING, XRF EQUIPMENT.

LANGUAGES : MARATHI, HINDI, SANSKRIT, KONKANI, ENGLISH.

VISITED : MAURITIUS, NETHERLANDS (HOLLAND)

PUBLICATIONS & PATENTS : RES. PAPERS - 14, TECH. REPORTS - 18, ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 10, R & D MGMT - 8, OPERATION - 10, TEACHING - 5, SURVEY OF NATURAL RESOURCES - 10, TECHNO-ECONOMIC SURVEYS - 10, PLANNING - 8, ADMN. - 8, COMPUTER PROCESSING - 6.

1738

DR X N VERLECAR; (B. AUGUST 9, 1948),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '71; M.SC. ANIMAL PHYSIOLOGY - BOMBAY '73; PH.D. APPLIED BIOLOGY - BOMBAY '84.

SPECIALIZATIONS : PRIMARY PRODUCTIVITY; MARINE CHEMICAL ECOLOGY; MARINE POLLUTION AND TOXICITY; LIVING MARINE RESOURCES AROUND INDIAN OCEAN AND ANTARCTIC SEAS.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1974-89; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : STUDIES ON ANTARCTIC LIVING RESOURCES.

LANGUAGES : KONKANI, MARATHI, HINDI, ENGLISH, FRENCH, PORTUGUESE.

VISITED : SRI LANKA, ANTARCTICA, MAURITIUS, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 13, ARTICLES - 8. RADIO TALKS - 2.

AWARDS & DISTINCTIONS : GLAXO CHEMICAL FORUM AWARD FOR A TECHNICAL ESSAY, GLAXO LABORATORIES, 1983; GOA STATE & ALL INDIA JAYCEE YOUNG SCIENTIST AWARD, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 16, SURVEY OF NATURAL RESOURCES - 16.

1739

DR P VETHAMONY; (B. APRIL 15, 1957),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADURAI '77; M.SC. OCEANOGRAPHY - COCHIN '80; PH.D. OFFSHORE ENGINEERING - IIT, BOMBAY '90.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY; PORTABLE BREAKWATER SYSTEM; OCEANWAVES; REMOTE SENSING.

EXPERIENCE : J.R.F. AND TRAINEE SCIENTIST, N.I.O., 1980-88; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON OCEAN WAVES, DYNAMICS OF FLOATING BODIES AND REMOTE SENSING.

LANGUAGES : TAMIL, MALAYALAM, ENGLISH.

VISITED : SRI LANKA, SEYCHELLES, CHINA, HONG KONG, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 8.

1740

DR M WAFAR; (B. JULY 4, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - MADURAI '69; M.SC. MARINE BIOLOGY - ANNAMALAI '71; PH.D. BIOLOGICAL OCEANOGRAPHY - PARIS '81.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., C.M.F.R.I, 1972-74; S.R.F.,J.S.A. AND SCIENTIST B, N.I.O., 1974-88: SCIENTIST C, N.I.O. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RESEARCH ON ECOLOGY OF CORAL REEFS.

LANGUAGES : TAMIL, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 44.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 18.

1741

DR(MRS) SAYEEDA WAFAR; (B. JANUARY 30, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. BOTANY - KARNATAK '71; PH.D. BOTANY - KARNATAK '89.

SPECIALIZATIONS : MARINE BOTANY (MANGROVES): PRODUCTION AND NUTRIENT REGENERATION IN MANGROVES.

EXPERIENCE : S.L.A., J.S.A., S.S.A. AND SCIENTIST B, N.I.O., 1975-89; (ALSO TRAINING IN PRODUCTIVITY OF MANGROVES, SPONSORED BY UNESCO, MALAYSIA, 1983); SCIENTIST C, N.I.O. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : RESEARCH ON MANGROVES - ECOLOGY & PRODUCTION - ENVIRONMENTAL IMPACT STUDY ON THE MANGROVES OF WEST COAST OF INDIA.

LANGUAGES : URDU, HINDI, MARATHI, KANNADA, KONKANI, ENGLISH.

VISITED : MALAYSIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, TECH. REPORTS - 3, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NATURAL RESOURCES - 15.

1742

DR B G WAGLE; (B. NOVEMBER 7, 1941),

SCIENTIST C, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '67; M.SC. GEOLOGY - BOMBAY '69; DIPLOMA IN PHOTO INTERPRETATION - INDIAN PHOTO INTERPRETATION INSTITUTE, DEHRADUN '75; PH.D. GEOLOGY - BOMBAY '87.

SPECIALIZATIONS : AERIAL PHOTO INTERPRETATION; MARINE GEOLOGY.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, N.I.O., 1969-86; SCIENTIST C, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOLOGY AND REMOTE SENSING.

LANGUAGES : KONKANI, MARATHI, ENGLISH, PORTUGUESE.

VISITED : SEYCHELLES ISLANDS.

PUBLICATIONS & PATENTS : RES.PAPERS - 22, TECH. REPORTS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : RES. - 20, CONSULTANCY - 11, SURVEY OF NATURAL RESOURCES - 11, TECHNO-ECONOMIC SURVEYS - 11.

1743

SHRI N V AMBRE; (B. JUNE 26, 1949),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1744

SHRI A F ANTO; (B. MAY 21, 1944),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC.(TECH) METEOROLOGY AND OCEANOGRAPHY - ANDHRA '73.

SPECIALIZATIONS : MARINE METEOROLOGY; PHYSICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A. AND S.S.A., N.I.O., 1966-81; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1981;(ALSO TRAINING IN AIR-SEA-LAND INTERACTIONS UNDER DAAD FELLOWSHIP, W.GERMANY, 1975-77; RESEARCH STUDENT. DEPARTMENT OF MARINE, EARTH AND ATMOSPHERIC SCIENCES, NORTH CAROLINA STATE UNIVERSITY, U.S.A. SINCE AUGUST, 1985).

PRESENT ACTIVITIES : RESEARCH.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 18.

1745

SHRI MASCARENHAS A M Q J ANTONIO; (B. JUNE 3, 1964),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. MICROPROCESSORS - BOMBAY '86.

SPECIALIZATIONS : CARRIER COMMUNICATION; MICROPROCESSORS.

EXPERIENCE : TECHNICAL OFFICER, GOA TELECOMMUNICATION & SYSTEMS, 1986-88; SCIENTIST B, N.I.O. SINCE MAY, 1988.

PRESENT ACTIVITIES : MAINTENANCE; COMPUTER PROCESSING.

LANGUAGES : KONKANI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 1, COMPUTER PROCESSING - 2, QUALITY CONTROL - 1, MAINTENANCE - 2, PRODUCTION - 2, IND. MANAGEMENT - 2.

1746

DR(MRS) L V BHANDARI; (B. DECEMBER 5, 1936),

R M OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1747

SHRI SHANKAR S BHAT; (B. FEBRUARY 9, 1963),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL - KARNATAK '84; M.TECH. MARINE STRUCTURES - MANAGALORE '86.

SPECIALIZATIONS : MARINE STRUCTURES; COMPUTER AIDED WAVE ANALYSIS.

EXPERIENCE : LECTURER, KARNATAKA REGIONAL ENGINEERING COLLEGE, SURATKAL, 1986-87; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : WAVE ANALYSIS AND STUDY OF WAVE STRUCTURE INTERACTION.

LANGUAGES : KANNADA, HINDI, MALAYALAM, KONKANI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, TEACHING - 1.

1748

SHRI P MATHEW CHACKO; (B. NOVEMBER 28, 1951),

ASSISTANT ENGINEER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1749

MRS B DAS; (B. AUGUST 21, 1936),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. BOTANY - KERALA '59.

SPECIALIZATIONS : NATURAL PRODUCTS.

EXPERIENCE : SR. TECHNICIAN, C.D.R.I., LUCKNOW, 1963-73; S.L.A., J.T.A., S.T.A. AND SCIENTIST (A1), N.I.O., 1973-88; TECHNICAL OFFICER (B), N.I.O. SINCE MAY, 1988.

PRESENT ACTIVITIES : ISOLATION & IDENTIFICATION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, TAMIL.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 29.

1750

SHRI V M DATE; (B. MARCH 5, 1947),

PHOTOGRAPHIC OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1751

MRS CAROLINA F M DIAS; (B. OCTOBER 2, 1950),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. CHEMISTRY - BOMBAY '71.

SPECIALIZATIONS : MARINE ENVIRONMENTAL POLLUTION.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST A, N.I.O., D'PAULA, 1971-90; TECHNICAL OFFECER (B), N.I.O. SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : ANALYTICAL WORK IN CHEMICAL OCEANOGRAPHY.

LANGUAGES : KONKANI, ENGLISH, HINDI, FRENCH.

PUBLICATIONS & PATENTS : RES PAPERS - 7, TECH. REPORTS - 6, SCIENTIFIC BOOKS -1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH, CONSULTANCY, OPERATION, TESTING AND MAINTENANCE (TOTAL : 20 YEARS).

1752

SHRI E C A DIAS; (B. AUGUST 28, 1944),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : C.T.I. DIPLOMA IN ELECTRONICS - N.C.T.V.T. (GOVT. OF INDIA) '72, PORTUGUESE LYCEUM (DEGREE) '61.

SPECIALIZATIONS : ELECTRONICS; OCEAN RESEARCH EQUIPMENT; GEOLOGICAL AND GEOPHYSICAL SURVEYS; OFFSHORE PROFILLING TECHNOLOGY.

EXPERIENCE : S.L.A., GOA MEDICAL COLLEGE, GOA, 1964-66; S.L.A., GOVT. POLYTECHNIC, 1966-73; TECHNICAL ASSISTANT, M/S CIBA & GEIGY LTD., 1973-74; S.L.A., J.T.A., S.T.A. AND SCIENTIST A1, N.I.O., 1974-88; TECHNICAL OFFICER (B), N.I.O. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE OF MARINE SURVEY EQUIPMENT.

LANGUAGES : KONKANI, ENGLISH, PORTUGUESE.

VISITED : NORWAY, HOLLAND, DENMARK, SWEDEN, U.K., GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : SERVICE & MAINTENANCE - 26.

1753

SHRI P NAIK GAJANAN; (B. FEBRUARY 20, 1959),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.TECH. MECHANICAL ENGINEERING - MYSORE '82.

SPECIALIZATIONS : INTERNAL COMBUSTION ENGINES; REFRIGERATION & AIR CONDITIONING; PRODUCTION TECHNOLOGY; FOUNDRY AND WELDING TECHNOLOGY.

EXPERIENCE : ENGINEER. G.K.W. LTD., BANGALORE, 1982-84; ASST. ENGG., BILT KARWAR, 1984-85; JR. ENGG., M/S CHOWGULE AND CO. PVT. LTD, 1985-88; SCIENTIST B, N.I.O. SINCE MAY, 1988.

PRESENT ACTIVITIES : TECHNICAL DEVELOPMENT, OPERATION AND MAINTENANCE OF SCIENTIFIC EQUIPMENTS.

LANGUAGES : KONKANI, KANNADA, HINDI, MARATHI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 6.

1754

SHRI ANURUDH SINGH GAUR; (B. MAY 31, 1965),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY. GOA.

QUALIFICATIONS : B.A. - JIWAJI '83; M.A. ANCIENT HISTORY - JIWAJI '85; P.G. DIPLOMA IN ARCHAEOLOGY - INSTITUTE OF ARCHAEOLOGY, NEW DELHI '88.

SPECIALIZATIONS : ARCHAEOLOGY; MARINE ARCHAEOLOGY.

EXPERIENCE : TECHNICAL OFFICER (B), N.I.O. SINCE SEPTEMBER, 1993.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES. - 5

1755

SHRI JOAQUIM IGNACIO GOES; (B. JULY 31, 1958),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY; M.SC. MICROBIOLOGY - BOMBAY.

SPECIALIZATIONS : PHYTOPLANKTON PHYSIOLOGY & ECOLOGY; OPEN WATER SCUBA DIVING; BIOLOGICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A., J.T.A., S.T.A., N.I.O., 1980-88; SCIENTIST B, N.I.O. SINCE JANUARY, 1988; (ALSO TRAINING IN SCUBA DIVING IN U.S.A.).

PRESENT ACTIVITIES : PHYTOPLANKTON PHYSIOLOGY AND ECOLOGY.

LANGUAGES : KONKANI, ENGLISH, HINDI.

VISITED : U.S.A., MEXICO, MAURITIUS.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APPLIED RES. - 8, SURVEY OF NATURAL RESOURCES - 8.

1756

SHRI PUTTASWAMY GUDIGAR; (B. OCTOBER 9, 1951),

DIVER ARCHAEOLOGIST (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.A. ANCIENT HISTORY & ARCHAEOLOGY - MYSORE '78.

SPECIALIZATIONS : ARCHIVAL DATA COLLECTION ON SHIPWRECKS; DIVING & UNDERWATER DOCUMENTATION.

EXPERIENCE : J.R.F., S.R.F. AND S.T.A., N.I.O., 1981-90; DIVER ARCHAEOLOGIST (B) N.I.O. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN MARINE ARCHAEOLOGY.

LANGUAGES : KANNADA, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 9, DOCUMENTATION - 3.

1757

DR(MRS) RANU GUPTA; (B. OCTOBER 18, 1942),

SCIENTIST B, N.I.O. REGIONAL CENTRE, KOCHI (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - AGRA '60; M.SC. BOTANY - AGRA '63; PH.D. PLANT PATHOLOGY - PATNA '81.

SPECIALIZATIONS : MARINE YEAST STUDIES; MICROBIAL TECHNOLOGY; MICROBIAL STUDIES.

EXPERIENCE : JUNIOR RESEARCH ASSISTANT, DEFENCE RESEARCH LABOTATORY (MATERIALS) KANPUR, 1968; RESEARCH FELLOW., PATNA UNIV., 1969-73; POST DOCTORAL FELLOW., DEPARTMENT OF INDUSTRIAL FISHERIES CUSAT, KOCHI, 1981-84; RESEARCH ASSOCIATE, N.I.O., REGIONAL CENTRE, KOCHI, 1984-90; SCIENTIST B, N.I.O. SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : RESEARCH AND DEVELOPMENT IN MARINE YEAST STUDIES.

LANGUAGES : ENGLISH, HINDI, BANGALI, GERMAN.

AWARDS & DISTINCTIONS : FELLOW, ACADEMY OF ENVIRONMENTAL BIOLOGY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4, TEACHING - 3.

1758

SHRI D ILANGOVAN; (B. DECEMBER 25, 1967),

SCIENTIST B, NATIONAL INSTITUTE OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL ENGINEERING - ANNA '89.

SPECIALIZATIONS : SOIL MECHANICS.

EXPERIENCE : SITE SUPERVISOR, RAILWAY ENGINEERING CONTRACTING (PVT) ORGN., TRICHY, 1989-90; SCIENTIST B, N.I.O. SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : GEOTECHNICAL STUDIES.

LANGUAGES : TAMIL, ENGLISH.

1759

MRS THRESIAMMA JOSEPH; (B. OCTOBER 4, 1949),

SCIENTIST B, N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '70; M.SC. CHEMISTRY - KERALA '72.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : SKILLED WORKER, S.L.A., J.T.A. AND S.T.A., N.I.O., 1973-85; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : R & D.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : JAPAN, KUWAIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 5.

1760

SHRI K L KOTNALA; (B. OCTOBER 25, 1945),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : VISHARAD (EQ.B.A.) IN HINDI - UNIV. OF PRAYAG '65; SPECIALISED TRAINING IN MARINE SURVEY, GEO TEAM NORWAY '78. AMI- MARINE TECHNOLOGY - INSTITUTE OF MARINE TECHNOLOGISTS (INDIA) '88.

SPECIALIZATIONS : HYDROGRAPHIC SURVEYS.

EXPERIENCE : S.T.A. AND SCIENTIST A1, N.I.O., 1976-86; TECHNICAL OFFICER (B), N.I.O. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : APPLIED RESEARCH AND CONSULTANCY IN MARINE SURVEYS.

LANGUAGES : HINDI, ENGLISH.

VISITED : MAURITIUS, MADGASCAR, SEYCHELLES.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 55, OTHER - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 23, CONSULTANCY - 15.

1761

SHRI R B KUBSAD; (B. FEBRUARY 14, 1948),

ASSISTANT EXECUTIVE ENGINEER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1762

SHRI R B KULKARNI; (B. JANUARY 10, 1942),

ASSISTANT EXECUTIVE ENGINEER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1763

SHRI P K DINESH KUMAR; (B. APRIL 7, 1963),

SCIENTIST B, REGIONAL CENTRE, VERSOVA, BOMBAY (NATIONAL INSTITUTE OF OCEANOGRAPHY).

QUALIFICATIONS : B.SC. - CALICUT '83; M.SC. OCEANOGRAPHY - COCHIN '85.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY; BEACH AND NEARSHORE PROCESSES; PHYSICAL ASPECTS OF ESTUARINE AND COASTAL OCEAN POLLUTION.

EXPERIENCE : J.R.F., N.I.O., 1986-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN PHYSICAL ASPECTS OF ESTUARINE AND COASTAL OCEAN POLLUTION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 4, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

1764

SHRI PRAVIN DIMKAR KUNTE; (B. NOVEMBER 23, 1958),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - POONA '79; M.SC. GEOLOGY - POONA '81; D.I.I.T. ADV. AERIAL PHOTO INTERPRETATION - IIT, BOMBAY '82.

SPECIALIZATIONS : REMOTE SENSING; DATA BASE MANAGEMENT; DATA PROCESSING.

EXPERIENCE : S.R.A. AND ASSISTANT PROJECT SCIENTIST, CSRE, IIT BOMBAY, 1983-87; SCIENTIST B, N.I.O. SINCE AUGUST, 1987.

PRESENT ACTIVITIES : GEOLOGICAL, GEOPHYSICAL & REMOTE SENSING DATA PROCESSING & MANAGEMENT.

LANGUAGES : MARATHI, ENGLISH, HINDI.

VISITED : NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, DATA/TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APP. RES. - 7, SURVEY OF NAT. RESOURCES - 4, COMPUTER PROCESSING - 9.

1765

SHRI R MADHAN; (B. JULY 16, 1968),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.TECH. ELECTRICAL ENGINEERING - CALICUT '90.

SPECIALIZATIONS : ELECTRICAL MAINTENANCE.

EXPERIENCE : SCIENTIST B, N.I.O. SINCE JUNE, 1991.

PRESENT ACTIVITIES : MAINTENANCE OF ELECTRICAL & ELECTRONIC EQUIPMENTS & SYSTEMS.

LANGUAGES : TAMIL, ENGLISH, HINDI, KONKANI.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 15.

1766

SHRI PRAKASH MARATHE; (B. JULY 23, 1954),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS & TELECOMMUNICATION - GOVT. POLYTECHNIC, JABALPUR '75.

SPECIALIZATIONS : MAINTENANCE, SERVICING AND OPERATION OF OCEANOGRAPHIC INSTRUMENTS; SERVICE & MAINTENANCE OF WIRELESS EQUIPMENTS.

EXPERIENCE : S.T.A. AND SCIENTIST A1, N.I.O., 1980-88; TECHNICAL OFFICER (B), N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : OPERATION, DESIGN & TESTING.

LANGUAGES : MARATHI, HINDI, ENGLISH, KONKANI.

VISITED : SINGAPORE, SEYCHELLUS, MAURITIUS.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 12.

1767

SHRI ANDREW A A MENEZES; (B. NOVEMBER 13, 1956),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. GEOLOGY - BOMBAY '78; M.SC GEOLOGY - BOMBAY '86.

SPECIALIZATIONS : SOFTWARE DEVELOPMENT AND MAINTENANCE; DATA BASE MANAGEMENT SYSTEMS.

EXPERIENCE : J.T.A., S.T.A., N.I.O., 1980-89; SCIENTIST B, N.I.O. SINCE AUGUST, 1989; (ALSO ADVANCED TRAINING ON NORSK DATA COMPUTER SYSTEM).

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : KONKANI, ENGLISH, MARATHI, HINDI.

VISITED : NORWAY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 11.

1768

SHRI V N MOHANAN; (B. FEBRUARY 23, 1949),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA MECHANICAL ENGINEERING - SREE RAMA POLYTECHNIC VALAPAD '73.

SPECIALIZATIONS : MECHANICAL ENGINEERING DRAWING.

EXPERIENCE : SR. DRAFTSMAN GR. VII, SR. DRAFTSMAN GR. III(1) AND SR. DRAFTSMAN GR. III(2), N.I.O., 1977-88; SR. DRAFTSMAN GR. III(3), REGIONAL CENTRE OF N.I.O., COCHIN, 1988-90; TECHNICAL OFFICER (B), N.I.O. SINCE JANUARY, 1990.

1769

DR C MOHANDASS; (B. JANUARY 26, 1962),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. MARICULTURES - COCHIN '87; PH.D. BIOTECHNOLOGY - COCHIN '93.

SPECIALISATIONS : IMMOBILIAZATION OF MICROBIAL CELLS.

EXPERIENCE : SCIENTIST B, N.I.O. SINCE 1992.

PRESENT ACTIVITIES : NITROGEN FIXATION.

LANGUAGES : TAMIL, ENGLISH, MALAYALAM.

PUBLICATIONS & PATENTS : SCIENTIFIC THESIS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, APPLIED RESEARCH - 5.

1770

DR P M MURALEEDHARAN; (B. OCTOBER 8, 1955),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '73; M.SC. OCEANOGRAPHY - KERALA '79; PH.D PHYSICAL OCEANOGRAPHY - COCHIN '85.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY; NUCLEAR OCEANOGRAPHY.

EXPERIENCE : P.D.F., COCHIN UNIV., 1985-86; DOD ASSOCIATE, PHYSICAL RESEARCH LABORATORY, AHMEDABAD, 1986-87; SCIENTIST B, N.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : RESEARCH IN REMOTE SENSING.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : U.S.A., KENYA, SINGAPORE, DUBAI.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4.

1771

SHRI G PRABHAKAR S MURTHY; (B. FEBRUARY 15, 1963),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. MATHEMATICS - ANDHRA '82; M.SC. MARINE GEOPHYSICS - WALTAIR '85.

SPECIALIZATIONS : MARINE GEOPHYSICS; COMPUTER PROGRAMMING.

EXPERIENCE : RESEARCH FELLOW, N.I.O., 1986-88; SCIENTIST B, N.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : BASIC & APPLIED RESEARCH IN MARINE GEOPHYSICS; COMPUTER PROCESSING.

LANGUAGES : TELUGU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 2.

1772

SHRI R NAGARAJAN; (B. AUGUST 14, 1953),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1773

SHRI GOVINDAN E NAMPOOTHIRI; (B. SEPTEMBER 13, 1951),

SCIENTIST BI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. PHYSICS - KERALA '73; M.SC. PHYSICS ELECTRONICS - BOMBAY '81.

SPECIALIZATIONS : ELECTRONIC INSTRUMENTATION; DESIGN & MAINTENANCE; FIELD OPERATIONS; TEACHING.

EXPERIENCE : DEMONSTRATOR, OUR COLLEGE, TRIVANDRUM, 1975-77; S.L.A., J.T.A., S.T.A., AND SCIENTIST A1, N.I.O., 1977-86; SCIENTIST BI, N.I.O. SINCE MAY, 1986

PRESENT ACTIVITIES : DESIGN AND MAINTENANCE OF OCEANOGRAPHIC INSTRUMENTATION.

LANGUAGES : MALAYALAM, ENGLISH, HINDI.

VISITED : U.K., NETHERLANDS, NORWAY, GERMANY, MALTA, SRI LANKA, MAURITIUS.

PUBLICATIONS & PATENTS : RES PAPERS - 1, TECH REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, DESIGN - 1, TESTING - 15, OPERATION - 15, MAINTENACE - 15, TEACHING - 2.

1774

SHRI GAJANAN S NAVELKAR; (B. FEBRUARY 6, 1965),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. ELECTRONICS & TELECOMM - BOMBAY '86.

SPECIALIZATIONS : ELECTRONICS; COMPUTER PROGRAMMING; SIGNAL PROCESSING.

EXPERIENCE : TRAINEE ENGINEER ANLEN ELECTRONICS, 1986-87; JUNIOR ENGINEER AND SENIOR ENGINEER, BETHARA INDUSTRIAL ESTATE, PONDA, GOA, 1987-90; SCIENTIST B, N.I.O. SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : APPLIED RESEARCH IN OCEAN ACOUSTIC TOMOGRAPHY.

LANGUAGES : HINDI, MARATHI, ENGLISH, FRENCH, KONKANI.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 1, QUALITY CONTROL - 2, COMPUTER PROC. - 1, MAINTENANCE - 1, PRODUCTION - 1.

1775

DR M G SINAI NETRAVALKAR; (B. APRIL 21, 1959),

MEDICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.B.B.S. GENERAL MEDICINE, GENERAL SURGERY AND OBST. GYNECOLOGY - BOMBAY '82; M.D. CHEST DISEASES & TUBERCULOSIS - BOMBAY '88.

SPECIALIZATIONS : CHEST DISEASES AND TUBERCULOSIS.

EXPERIENCE : JUNIOR RESIDENT MEDICAL OFFICER, GOA MEDICAL COLLEGE, 1983-88; MEDICAL OFFICER (B), N.I.O. SINCE MARCH, 1988.

PRESENT ACTIVITIES : ATTENDING TO PATIENTS, BOTH AT OPD LEVEL AND EMERGENCY.

LANGUAGES : KONKANI, ENGLISH, HINDI, MARATHI, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : MEDICAL FIELD - 5, AS CHEST SPECIALIST - 3.

1776

SHRI T PANKAJAKSHAN; (B. MAY 28, 1959),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - CALICUT '82; M.SC. PHYSICAL OCEANOGRAPHY - COCHIN '84.

SPECIALIZATIONS : DATA BASE MANAGEMENT; COMPUTER PROGRAMMING.

EXPERIENCE : J.T.A., N.I.O., 1985-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : DATA BASE MANAGEMENT.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : BANGLADESH, JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2.

1777

SHRI D B PATHAK; (B. JULY 20, 1966),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. ELECTRONICS & TELECOMM - BOMBAY '87; POST GRADUATE DIPLOMA SCIENCE & TECHNOLOGY - PILANI '90.

SPECIALIZATIONS : ELECTRONICS & TELECOMMUNICATION; UNDERWATER ELECTRONICS & ACOUSTICS.

EXPERIENCE : MANAGEMENT TRAINEE, GOA ELECTRONICS LTD., GOA, 1980-88; SCIENTIST B, N.I.O. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF UNDERWATER INSTRUMENTS; RESEARCH STUDIES IN UNDERWATER ACOUSTIC BACKSCATTERING.

LANGUAGES : BENGALI, ENGLISH, HINDI, KONKANI, MARATHI.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, SYMPOSIUM PROCEEDINGS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2, DESIGN - 1, PRODUCTION - 1, MAINTENANCE - 2, TECHNICAL DEV. - 1.

1778

SHRI M C PATHAK; (B. OCTOBER 1, 1947),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : A.M.I.MARINE TECH. - INSTITUTION OF MARINE TECHNOLOGY, INDIA.

SPECIALIZATIONS : MARINE SURVEYS; SATELLITE NAVIGATION; BATHYMETRIC SURVEYS; MICROTOPOGRAPHY; GEODETIC POSITIONING; SUBMARINE PIPELINE SURVEYS.

EXPERIENCE : ASSISTANT MARINE SURVEYOR, MINISTRY OF SHIPPING & TRANSPORT, 1968 -76; S.T.A. AND TECHNICAL OFFICER (A), N.I.O., 1977-87; TECHNICAL OFFICER (B), N.I.O. SINCE APRIL, 1987;(ALSO SPECIALISED TRAINING IN SATELLITE POSITIONING AND NAVIGATION, E.D.M. SYSTEM AND ACOUSTIC NAVIGATION, U.K. AND SPECIALISED COURSE IN MARINE SURVEY EQUIPMENT GEOTEAM NORWAY, 1981-82; ATTENDED A COURSE ON R & D MANAGEMENT, ORGANISED BY NISTADS, NEW DELHI).

PRESENT ACTIVITIES : MARINE SURVEYS; BATHYMETRY & MICROTOPOGRAPHY; STUDIES ON SEA LEVEL RISE DUE TO GREEN HOUSE EFFECT.

LANGUAGES : HINDI, MARATHI, ENGLISH.

VISITED : MAURITIUS, ANTARCTICA, U.K., GERMANY, JAMAICA, BAHAMAS, BARBADOS, TRINIDAD, GUAYANA.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 65.

AWARDS & DISTINCTIONS : MEMBER, FIRST INDIAN ANTARCTIC EXPEDITION; FELLOW, INDIAN ASSOCIATION FOR LIMNOLOGY AND OCEANOGRAPHY; MEMBER, SOCIETY FOR MARINE ARCHAEOLOGY; MEMBER, INDIAN ASSOCIATION OF MARINE GEOSCIENTISTS.

1779

MRS VANI B PESHWE; (B. APRIL 10, 1946),

SCIENTIST BI, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN RADIO ENGINEERING - STATE BOARD OF TECHNICAL EDUCATION, KARNATAKA '62.

SPECIALIZATIONS : MARINE INSTRUMENTATION.

EXPERIENCE : TRAINEE, I.T.I., BANGALORE, 1965-66; SUPERVISOR, CONTROLLER OF INSPECTION (ELECTRONICS), BANGALORE, 1966-72; J.S.A., S.S.A. AND SCIENTIST A, N.I.O., 1972-88; SCIENTIST B1, N.I.O. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : R & D IN MARINE INSTRUMENTATION.

LANGUAGES : KANNADA, MARATHI, KONKANI, TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 5, PATENT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, DESIGN - 15, TESTING - 5.

1780

SHRI ABRAHAM PYLEE; (B. NOVEMBER 16, 1937),

TECHNICAL OFFICER (B), N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.A. MATHEMATICS - DELHI '67; M.SC. OCEANOGRAPHY - COCHIN '80.

SPECIALIZATIONS : MATHEMATICS; COASTAL & NEARSHORE OCEANOGRAPHY; PHYSICAL OCEANOGRAPHY; ESTUARINE DYNAMICS.

EXPERIENCE : S.L.A., O.R.W. OF CBG, 1958-76; J.T.A., S.T.A. AND SCIENTIST A, N.I.O., 1976-86; TECHNICAL OFFICER (B), N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ESTUARINE DYNAMICS (APPLIED RESEARCH).

LANGUAGES : MALAYALAM, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 32.

1781

SHRI K MOHANA RAO; (B. JULY 5, 1954),

SCIENTIST B, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - ANDHRA '74; M.SC.(TECH.) APPLIED GEOLOGY - ANDHRA '77; M.TECH. MINERAL EXPLORATION - I.S.M., DHANBAD '78.

SPECIALIZATIONS : MARINE MINERAL EXPLORATION; MARINE SEDIMENTOLOGY.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST A, N.I.O., 1980-86; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN MARINE GEOLOGY.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 6.

1782

SHRI P V S S DURGA PRASADA RAO; (B. OCTOBER 21, 1962),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. BOTANY - NAGARJUNA '82; M.SC. BIOCHEMISTRY - INDIAN AGRICULTURAL RESEARCH INSTITUTE, DELHI '87.

SPECIALIZATIONS : BIOCHEMISTRY; ENZYMOLOGY; POLLUTION MONITORING; CHEMICAL OCEANOGRAPHY.

EXPERIENCE : SCIENTIST B, N.I.O. SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : CHEMICAL OCEANOGRAPHY; ESTIMATION OF SEA WATER NUTRIENTS.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1.

1783

DR T V RAVEENDRAN; (B. MARCH 1, 1960),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - CALICUT '80; M.SC. MARINE BIOLOGY - COCHIN '82; PH.D. BIODETERIORATION - BOMBAY '89.

SPECIALIZATIONS : MARINE BIODETERIORATION; MARINE BIOLOGY.

EXPERIENCE : J.R.F. AND S.R.F., N.I.O., 1982-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN MARINE BIODETERIORATION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 8.

1784

SHRI C REVICHANDRAN; (B. JUNE 1, 1962),

SCIENTIST B, N.I.O. REGIONAL CENTRE, KOCHI (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - CALICUT '82; M.SC. PHYSICAL OCEANOGRAPHY - COCHIN '84.

SPECIALIZATIONS : PHYSICAL OCEANOGRAPHY.

EXPERIENCE : J.R.F., N.I.O., 1985-87; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : RESEARCH ON COASTAL OCEANOGRAPHY.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2.

1785

DR A K SARAN; (B. NOVEMBER 21, 1959),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1786

DR ANUPAM SARKAR; (B. MARCH 8, 1952),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. ORGANIC CHEMISTRY - NORTH BENGAL '74; PH.D. ORGANIC CHEMISTRY - NORTH BENGAL '80.

SPECIALIZATIONS : ORGANIC CHEMISTRY; SYNTHETIC CHEMISTRY; ANALYTICAL CHEMISTRY; ENZYMATIC ASSAYS; PESTICIDE RESIDUE ANALYSIS.

EXPERIENCE : LECTURER, SILIGURI COLLEGE, W.BENGAL, 1981; LECTURER, RAIGANJ UNIVERSITY COLLEGE, 1981-82; RESEARCH ASSOCIATE, NORTH BENGAL UNIVERSITY, 1982-84; RESEARCH ASSOCIATE, N.I.O., 1984-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : ANALYSIS AND ESTIMATION OF PESTICIDES AND CHLORINATED HYDROCARBONS IN THE MARINE ENVIRONMENT.

LANGUAGES : BENGALI, KONKANI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 41, TECH. REPORTS - 1, ARTICLES - 3. PATENTS FILED - 5, PROCESSES DEVELOPED - 2.

AWARDS & DISTINCTIONS : NOCIL AWARD FOR SIGNIFICANT WORK IN PESTICIDES, 1985.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP. RES. - 7, TESTING - 7, QUALITY CONTROL - 7, TEACHING - 2.

1787

DR K V L N S SARMA; (B. MAY 10, 1951),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC.(TECH.) GEOPHYSICS - ANDHRA '75; PH.D. GEOPHYSICS - ANDHRA '83.

SPECIALIZATIONS : MARINE GEOPHYSICS.

EXPERIENCE : J.R.F. AND S.R.F., N.G.R.I., HYDERABAD, 1976-81; J.S.A., S.S.A. AND SCIENTIST A, N.I.O., 1981-86; SCIENTIST B, N.I.O. SINCE JUNE, 1986.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : SINGAPORE, DJIBOUTI.

PUBLICATIONS & PATENTS : RES. PAPERS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 4, APPLIED RESEARCH - 11.

1788

SHRI S S SAWANT; (B. MARCH 5, 1958),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '77; M.SC. APPLIED BIOLOGY - BOMBAY '85.

SPECIALIZATIONS : MARINE BIOFOULING; MARINE CORROSION.

EXPERIENCE : GRADUATE TRAINEE AND J.T.A., N.I.O., 1980-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : RESEARCH IN BIOFOULING, CORROSION AND MARINE BIODETORIORATION.

LANGUAGES : KONKANI, HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 7, RADIO TALKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 5, DESIGN - 1, TECH. DEV. - 1, TESTING - 3, CONSULTANCY - 1.

1789

DR KALIDAS SAWKAR; (B. SEPTEMBER 12, 1947),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. CHEMISTRY - BOMBAY '73; PH.D. CHEMISTRY - BOMBAY '82.

SPECIALIZATIONS : CHEMICAL OCEANOGRAPHY.

EXPERIENCE : TEACHER/LECTURER, DHEMPE COLLEGE OF ARTS & SCIENCE, PANAJI, GOA, 1974-78: J.S.A. AND S.S.A., N.I.O., 1978-84; SCIENTIST B, N.I.O. SINCE FEBRUARY, 1984.

PRESENT ACTIVITIES : R & D IN CHEMICAL OCEANOGRAPHY.

LANGUAGES : KONKANI, HINDI, MARATHI, GUJARTI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 12, TEACHING - 4.

1790

SHRI A PANNEER SELVAM; (B. JULY 15, 1955),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN ELECTRONICS - TECHNICAL BOARD, TAMILNADU '74.

SPECIALIZATIONS : COMPUTER MAINTENANCE; DIGITAL ELECTRONICS APPLICATIONS; SOFTWARE DEVELOPMENT.

EXPERIENCE : J.L.A., N.A.L.(CSIR), 1975-78; J.T.A., S.T.A. AND SCIENTIST A, N.I.O., 1978-88; TECHNICAL OFFICER (B), N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF COMPUTER SYSTEM.

LANGUAGES : TAMIL, ENGLISH.

VISITED : U.S.A, W.GERMANY, MAURITIUS, CARIBBEAN COUNTRIES.

PUBLICATIONS & PATENTS : TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 7, PILOT PLANT - 3, MAINTENANCE - 17, R & D MANAGEMENT - 3.

1791

DR(MRS) M S SHAILAJA; (B. SEPTEMBER 10, 1947),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : PH.D. BIOCHEMISTRY - MYSORE '74.

SPECIALIZATIONS : ENZYME AND MARINE BIOCHEMISTRY; IMMUNOLOGY.

EXPERIENCE : J.R.F. AND S.R.F., C.F.T.R.I., MYSORE, 1969-73; P.D.F., PUBLIC HEALTH LABORATORY, PANAJI, GOA, 1976-78; ANTIGEN CHEMIST, GOA MEDICAL COLLEGE, PANAJI, GOA, 1978-80; RESEARCH ASSOCIATE (DST AND DOD), N.I.O., 1982-87; SCIENTIST B, N.I.O. SINCE MARCH, 1987.

PRESENT ACTIVITIES : MARINE BIOCHEMISTRY - STUDIES ON THE LEVELS AND BIOCHEMICAL EFFECTS OF POLLUTANTS ON MARINE ORGANISMS; APPLICATION OF BIOCHEMICAL TECHNIQUES TO STUDY DENITRIFICATION IN THE NORTHERN INDIAN OCEAN.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, APP. RES. - 6, TEACHING - 10.

1792

SHRI D V CHANDER SHAKER; (B. DECEMBER 4, 1966),

SCIENTIST B, N.I.O. REGIONAL CENTRE, VISAKHAPATNAM (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : M.SC.(TECH.) GEOPHYSICS - OSMANIA '90.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS.

EXPERIENCE : RESEARCH GEOPHYSICIST, OSMANIA UNIVERSITY, 1990-91; SCIENTIST B, N.I.O. SINCE DECEMBER, 1991.

PRESENT ACTIVITIES : APPLIED RESEARCH IN EXPLORATION GEOPHYSICS.

LANGUAGES : TELGU, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 1, SURVEY OF NAT RES - 1.

1793

SHRI S P SHARMA; (B. JUNE 15, 1947),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHIC, GOA.

QUALIFICATIONS : B.SC. - AGRA '68.

SPECIALIZATIONS : PUBLICATION & REPROGRAPHY; INFORMATION DISSEMINATION.

EXPERIENCE : PROOF READER, AGRA UNIVERSITY, 1968-71; PROOF READER., N.I.O., 1972-76; MANAGER IMPA PRINTERS, AGRA, 1976; PROOF READER AND S.T.A., N.I.O., 1977-88; TECHNICAL OFFICER (B)., N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : PUBLICATION & INFORMATION DISSEMINATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 20, REPROGRAPHY - 20, INFORMATION SERVICES - 20.

1794

DR PRABHAKAR V SHIRODKAR; (B. JULY 15, 1952),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. - BOMBAY '74; M.SC. BIOCHEMISTRY - BOMBAY '76; PH.D. MARINE CHEMISTRY - BOMBAY '85.

SPECIALIZATIONS : MARINE CHEMISTRY; CHEMICAL OCEANOGRAPHY.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A., N.I.O., 1977-89; SCIENTIST B, N.I.O. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : R & D IN BRINE & FINE CHEMICALS AND NUTRIENT CHEMISTRY.

LANGUAGES : KONKANI, ENGLISH, HINDI, MARATHI, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 7.

1795

SHRI V SUBRAMANIUM; (B. JULY 1, 1953),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS . D.E.E. ELECTRICAL - STATE BOARD OF TECHNICAL EDUCATION, MADRAS '72; GRAD. I.E.T.E. -

INSTITUTION OF ELECTRONIC AND TELECOMMUCATION ENGINEERS, MADRAS '86.

SPECIALISATIONS : INSTRUMENTATION; LABORATORY EQUIPMENTS & SYSTEMS; ELECTRICAL ENGINEERING.

EXPERIENCE : SUPERVISOR, KESORAM CEMENTS, A.P., 1972-73; APRENTICE, VALIVALAM DIVISION POLYTECHNIC, 1973-74; SUPERVISOR, MADRAS RUBBBER FACTORY, GOA, 1974-75; S.L.A., J.T.A., S.T.A. AND SCIENTIST A, N.I.O., 1975-88; TECHNICAL OFFICER (B), N.I.O. SINCE 1988.

PRESENT ACTIVITIES : SERVICE & MAINTENANCE.

LANGUAGES : TELUGU, TAMIL, ENGLISH, HINDI.

VISITED : U.S.A., SRI LANKA.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 21.

1796

SHRI R SUDARSHAN; (B. FEBRUARY 6, 1962),

SCIENTIST B, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - MANGALORE '87.

SPECIALIZATIONS : ELECTRONICS & COMMUNICATION; INSTRUMENTATION.

EXPERIENCE : QUALITY CONTROL ENGINEER, BEE ELECTRONICS, TARAPUR, 1987-89; BIO-MEDICAL ENGINEER, KASTURBA MEDICAL COLLEGE, MANIPAL, 1989-90; LECTURER CUM MAINTENANCE ENGINEER, KVG COLLEGE OF ENGINEERING, KARNATAKA, 1991; SCIENTIST B, N.I.O. SINCE NOVEMBER, 1991.

PRESENT ACTIVITIES : INSTRUMENTATION.

LANGUAGES : KANNADA, ENGLISH, HINDI, SANSKRIT.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 1.

AWARDS & DISTINCTIONS : FELLOW, ACADEMY OF GENERAL EDUCATION, DR TMA PAI FOUNDATION, MANIPAL, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : QUALITY CONTROL - 2, MAINTENANCE - 5.

1797

SHRI SUNDARESH; (B. JULY 21, 1964),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.A. - MYSORE '86; M.A. ANCIENT HISTORY & ARCHAEOLOGY - MYSORE '88.

SPECIALIZATIONS : ANCIENT HISTORY & ARCHAEOLOGY; MARINE ARCHAEOLOGY.

EXPERIENCE : TECHNICAL OFFICER (A) N.I.O., 1989-91; TECHNICAL OFFICER (B), N.I.O. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : MARINE ARCHAEOLOGICAL RESEARCH IN INDIA TO RECONSTRUCT THE CULTURAL HERITAGE IN INDIA.

LANGUAGES : KANNADA, ENGLISH, TAMIL, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 2. APP. RES. - 1.

1798

MRS ROSY THOMAS; (B. SEPTEMBER 2, 1938),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1799

SHRI SURYAKANT BASAPPA TINGALI; (B. OCTOBER 9, 1948),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - TECHNICAL EDUCATION BOARD OF MAHARASHTRA '68; DIPLOMA MECHANICAL ENGINEERING - TECHNICAL EDUCATION BOARD OF MAHARASHTRA '69.

SPECIALIZATIONS : MAINTENANCE OF LIGHT SWITCH GEAR; WATER WORKS; SEWAGE TREATMENT; WORKSHOP ENGINEERING.

EXPERIENCE : SUB. ENGR., M.S.E.B., POONA, 1969-70; ELEC. & MECH. OVERSEER, 1970-74; ASST. ENGR., CORPORATION, 1974-76; MECH. ASST. AND TECHNICAL S.M.A., N.I.O., 1976-88; SCIENTIST B, N.I.O. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DEVELOPMENT AND FABRICATION OF OCEANIC EQUIPMENT.

LANGUAGES : KANNADA, MARATHI, HINDI, SANSKRIT, ENGLISH, KONKANI, URDU.

1800

SHRI SILA TRIPATI; (B. MARCH 2, 1962),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.A.(HONS.) - BERHAMPUR '83; M.A. HISTORY - BERHAMPUR '85; P G DIPLOMA ARCHAEOLOGY - INSTITUTE OF ARCHAEOLOGY, ARCHAEOLOGICAL SURVEY OF INDIA, NEW DELHI '88.

SPECIALIZATIONS : MARINE ARCHAEOLOGY; STUDY ON ANCIENT PORTS OF INDIA; STUDY OF SHIPWRECKS; ARCHIVAL LITERATURE.

EXPERIENCE : J.R.F., MARINE ARCHAEOLOGY UNIT AND TECHNICAL OFFICER, N.I.O., 1988-90; SCIENTIST B, N.I.O. SINCE DECEMBER, 1990.

PRESENT ACTIVITIES : RESEARCH IN MARINE ARCHAEOLOGY.

LANGUAGES : ORIYA, HINDI, ENGLISH, TELUGU.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. & APP. RES. - 2.

1801

DR A S UNNIKRISHNAN; (B. JUNE 10, 1955),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. OCEANOGRAPHY - COCHIN '78; M.PHIL. ENVIRONMENTAL SCIENCES - J.N.U. '80; DOC-

TORATE, PHYSICAL OCEANOGRAPHY - UNIVERSITE 'DE BRETAGNE OCCIDENTAL, FRANCE '85.

SPECIALIZATIONS : NUMERICAL MODELLING OF TIDES IN ESTUARIES; NUMERICAL MODELLING OF WIND DRIVEN CIRCULATION IN BAYS.

EXPERIENCE : RESEARCH ASSISTANT, I.I.T., NEW DELHI, 1980-81; RESEARCH ASSOCIATE AND POOL OFFICER (C.S.I.R.), N.I.O., 1985-87; SCIENTIST B, N.I.O. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : RESEARCH ON MODELLING OF WIND DRIVEN CURRENTS AND LARGE SCALE FLOWS.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 11.

1802

SHRI C VENUGOPAL; (B. AUGUST 12, 1966),

SCIENTIST B, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.E. CIVIL ENGINEERING - KARNATAK '88; M.TECH. MARINE STRUCTURES - KARNATAK '92.

SPECIALIZATIONS : DESIGN OF MARINE STRUCTURES; CORROSION OF RCC STRUCTURES.

EXPERIENCE : SCIENTIST B, N.I.O. SINCE OCTOBER, 1992.

PRESENT ACTIVITIES : BASIC & APPLIED RESEARCH.

LANGUAGES : KANNADA, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 1, APP. RES. - 1.

1803

SHRI P VENUGOPAL; (B. OCTOBER 11, 1946),

TECHNICAL OFFICER (B), N.I.O. REGIONAL CENTRE, COCHIN (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - KERALA '65.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; ECOLOGY; MARINE POLLUTION.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND SCIENTIST A, N.I.O., 1966-86; TECHNICAL OFFICER (B), N.I.O. SINCE DECEMBER, 1986.

PRESENT ACTIVITIES : RESEARCH IN BIOLOGICAL OCEANOGRAPHY AND MARINE POLLUTION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 23.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 19, INFORMATION & PUBLICATION - 5.

1804

SHRI MD WAHIDULLAH; (B. SEPTEMBER 6, 1946),

TECHNICAL OFFICER (B), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - ITI, GULBARGA '65.

SPECIALIZATIONS : DRAWING & DESIGN.

EXPERIENCE : JR. DRAUGHTSMAN, TOWN & COUNTRY PLANNING DEPARTMENT, GOA 1966-72; SR. DRAUGHTSMAN, J.T.A., S.T.A. AND SCIENTIST A, N.I.O., 1972-89; TECHNICAL OFFICER (B), N.I.O. SINCE APRIL, 1989.

PRESENT ACTIVITIES : DRAWING & DESIGN WORK.

LANGUAGES : URDU, ENGLISH, HINDI, KANNADA, KONKANI.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20.

1805

SHRI BLASCO FERNANDES; (B. JANUARY 20, 1955),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1806

MISS P D GORE; (B. JULY 14, 1945),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1807

SHRI A V MANDALIA; (B. JUNE 5, 1950),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1808

SHRI P G MISLANKAR; (B. FEBRUARY 22, 1948),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1809

SHRI S K NANYASI; (B. JANUARY 8, 1956),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : HIGH SCHOOL - BIHAR BOARD, PATNA '72, JUNIOR SURVEYOR EXAM. SURVEYING - WEST BENGAL SURVEY INSTITUTE '73, SENIOR SURVEYORS EXAM. SURVEYING - WEST BENGAL SURVEY INSTITUTE '74.

SPECIALIZATIONS : LAND AND HYDROGRAPHIC SURVEYING.

EXPERIENCE : JR. TECH. ASTT. AND SR. TECH. ASSISTANT, N.I.O., 1977-87; TECHNICAL OFFICER (A), N.I.O. SINCE OCTOBER, 1987; (ALSO TRAINING ON ATLAS HYDROSWEEP AND HYDROMAP HYDROGRAPHIC MAPPING SYSTEM IN GERMANY).

PRESENT ACTIVITIES : HYDROGRAPHIC SURVEY DATA COLLECTION & PROCESSING.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : GERMANY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 22.

AWARDS & DISTINCTIONS : HYDROSWEEP AWARD, N I O, GOA, 1990.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 15.

1810

SHRI B NARAYANAN; (B. MAY 18, 1937),

SCIENTIST AI, N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. ZOOLOGY - KERALA '63.

SPECIALIZATIONS : BIOLOGICAL OCEANOGRAPHY; MARINE ECOLOGY.

EXPERIENCE : S.L.A., J.T.A., S.T.A., N.I.O., 1965-86; SCIENTIST AI, N.I.O. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : BENTHIC AND ENVIRONMENTAL STUDIES.

LANGUAGES : MALAYALAM, ENGLISH, TAMIL, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 14.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 24, SURVEY OF NAT. RESO. - 3.

1811

MRS S H OKA; (B. OCTOBER 9, 1947),

LIBRARY OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1812

DR(MRS) DEVI PADMINI; (B. NOVEMBER 17, 1938),

TECHNICAL OFFICER (A), N.I.O. REGIONAL CENTRE, WALTAIR (NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA).

QUALIFICATIONS : B.SC. - SAURASHTRA '74; M.SC. BOTANY - BOMBAY '81; PH.D. BOTANY - BOMBAY '84.

SPECIALIZATIONS : MARINE ALGAE; PHARMACEUTICALLY INTERESTING SUBSTANCES FROM SEAWEEDS.

EXPERIENCE : S.L.A., J.T.A., S.T.A. AND TECHNICAL OFFICER, C.S.M.C.R.I., 1980-92; TECHNICAL OFFICER (A), N.I.O. RC, WALTAIR SINCE MAY, 1992.

LANGUAGES : TELUGU, ENGLISH, HINDI, GUJARATI, TAMIL, KANNADA.

1813

SHRI M K PREMKUMAR; (B. MAY 5, 1955),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, REGIONAL CENTRE WALTAIR.

QUALIFICATIONS : PRE-DEGREE WITH SCIENCE - KERALA '73; CERTIFICATE IN INSTRUMENT MECHANICS - I.T.I., KERALA '76.

SPECIALIZATIONS : INSTRUMENTATION; ELECTRONICS; ELECTRICAL MACHINES.

EXPERIENCE : S.L.A., J.T.A. AND S.T.A. N.I.O., 1978-90; TECHNICAL OFFICER (A), N.I.O. SINCE MARCH, 1990.

PRESENT ACTIVITIES : INSTRUMENTATION.

LANGUAGES : MALAYALAM, ENGLISH, HINDI, TELGU, TAMIL.

PROFESSIONAL EXPERIENCE(IN YEARS) : MAINTENANCE - 14.

1814

SHRI O RAVEENDRAN; (B. JULY 1, 1946),

SCIENTIST A, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : B.SC. ZOOLOGY - KERALA '65.

SPECIALIZATIONS : MARINE MICROBIOLOGY; ZOOPLANKTON STUDIES.

EXPERIENCE : S.L.A., J.T.A., S.T.A., N.I.O., 1966-86; SCIENTIST A, N.I.O. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : POLLUTION STUDIES WITH REFERENCE TO BACTERIA IN THE BEACHES AND INSHORE WATERS OF S.W. COAST OF INDIA (R&D MGMT).

LANGUAGES : ENGLISH, MALAYALAM, HINDI.

PUBLICATIONS & PATENTS : RESEARCH PAPERS: 14.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, R&D MGMT. - 14.

1815

SHRI P V S S R SARMA; (B. APRIL 7, 1950),

SCIENTIST A, NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : M.SC. STATISTICS - ANDHRA '74.

SPECIALIZATIONS : DEMOGRAPHY; ECONOMETRICS.

EXPERIENCE : STATISTICAL ASSISTANT. GIRIJANUARY DEVELOPMENT AGENCY, 1974-76; COS CLERK, M/S ORIENT PAPER MILLS, 1976-79; S.S.A., N.I.O., 1979-81; SCIENTIST A, N.I.O. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : PLANNING. MONITORING AND EVALUATION.

LANGUAGES : TELUGU, HINDI, MARATHI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : INDL. MGMT. - 3, PLANNING - 10.

1816

SHRI PRASHANT SHARMA; (B. JULY 20, 1952),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

1817

SHRI A V SONAWANE; (B. JANUARY 17, 1959),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

QUALIFICATIONS : DIPLOMA IN MECHANICAL ENGINEERING - BOARD OF TECHNICAL EDUCATION, MAHARASHTRA '75.

EXPERIENCE : TRAINEE ENGINEER, M/S CHOWGULE & CO. PVT. LTD., GOA, 1978; TRAINEE ENGINEER, M/S LARSEN & TURBO, BOMBAY, 1979; J.M.A. AND S.M.A., N.I.O., 1979-89; TECHNICAL OFFICER (A), N.I.O. SINCE JUNE, 1989.

PRESENT ACTIVITIES : MECHANICAL ENGINEERING.

LANGUAGES : MARATHI, HINDI, KONKANI, ENGLISH, FRENCH.

VISITED : MAURITIUS, GERMANY, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 3. TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES. - 5, DESIGN - 8, TECH. DEV. - 14, R & D MGMT. - 5, OPERATION - 14, TESTING - 3, QUALITY CONTROL - 14, MAINTENANCE - 14, PRODUCTION - 3, TECHNO-ECO SURVEY - 8, PLANNING - 14, TECH. TRANSFER - 3, SALES MARKETING - 1, ADMN. - 4, COMPUTER PROC. - 5.

1818

SHRI K VENKATESHWARLU; (B. SEPTEMBER 25, 1944),

TECHNICAL OFFICER (A), NATIONAL INSTITUTE OF OCEANOGRAPHY, GOA.

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BHALLA SURINDER SINGH	TECHNICAL OFFICER (B)	1202
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BHOLA O P	TECHNICAL OFFICER (C)	597
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CHACKO P MATHEW	ASSISTANT ENGINEER (B)	1748
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CHAKRAVARTY B C	SCIENTIST C	598
CHAKRAVARTY T K	SCIENTIST C	599
CHAKRAVERTY D J	SCIENTIST EII	1067
CHAKRAVORTY B R	SCIENTIST EI	489
CHAND DHARAM	TECHNICAL OFFICER (B)	724
CHAND DHARAM	MECHANICAL ENGINEER (A)	1014

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CHAND KRISHAN	MECHANICAL ENGINEER (B)	953
CHAND RAMESH	SCIENTIST C	1400
CHAND SURESH	SCIENTIST EI	490
CHANDER HARISH	SCIENTIST EI	491
CHANDER MAHESH	SCIENTIST EI	492
CHANDNA LALIT KUMAR	TECHNICAL OFFICER (C)	1136
CHANDRA MUKESH	SCIENTIST C	600
CHANDRA RAMESH	TECHNICAL OFFICER (A)	1251
CHANDRA SUBHAS	SCIENTIST F	438
CHANDRA SUBHASH	TECHNICAL OFFICER (B)	725
CHANDRA SURESH	SCIENTIST B	954
CHANDRAMOHAN D	SCIENTIST EI	1592
CHANDRAMOHAN P	SCIENTIST EI	1593
CHARAN S NIRMAL	SCIENTIST C	1401
CHARY G NARSIMHA	TECHNICAL OFFICER (C)	1402
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CHATTERJI ANIL K	SCIENTIST C	1653
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CHATWAL RAVI KUMAR	SCIENTIST A	769
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CHHABRA B L	TECHNICAL OFFICER (B)	1208
CHHABRA D S	SCIENTIST EII	1068
CHHABRA JAGDISH KUMAR	SCIENTIST EI	1090
CHHABRA S C	SCIENTIST C	1141
CHHACHHIA DHARAMPAL	TECHNICAL OFFICER (B)	1209
CHIBBER M K	TECHNICAL OFFICER (B)	726
CHITNIS VIJAY TRIMBAK	SCIENTIST EII	456
CHOPRA A K	SCIENTIST EI	823
CHOPRA H S	TECHNICAL OFFICER (A)	1016
CHOPRA P C	MECHANICAL ENGINEER (A)	1017
CHOPRA PARVATI	SCIENTIST C	604
CHOPRA RAJEEV	SCIENTIST C	605
CHOWDARY M V R	SCIENTIST EI	1330

NAME	DESIGNATION	BIODATA NO
CHOWDHARY R N	SCIENTIST B	727
CHOWDRY V B	SCIENTIST B	1210
D'SA EURICO JOHN	SCIENTIST C	1656
D'SILVA CLASSY	SCIENTIST C	1657
D'SILVA LLOYD	TECHNICAL OFFICER (C)	1403
D'SOUZA MARIA L	SCIENTIST C	1658
DABAS RAJ SINGH	SCIENTIST C	606
DABI N K	MECHANICAL ENGINEER (C)	888
DAGA O P	SCIENTIST EI	824
DAHIYA H S	SCIENTIST C	607
DALAL S G	SCIENTIST EI	1594
DAMODAR B	TECHNICAL OFFICER (B)	1492
DANDAWATE VASANT D	SCIENTIST EII	457
DAS B	TECHNICAL OFFICER (B)	1749
DAS BIJOY KISHORE	SCIENTIST F	439
DAS MATI LAL	SCIENTIST C	608
DAS V KESAVA	SCIENTIST EI	1595
DASGUPTA M K	SCIENTIST F	440
DASGUPTA MOHIT KUMAR	TECHNICAL OFFICER (A)	770
DASS BHAGWAN	TECHNICAL OFFICER (A)	1018
DATE V M	PHOTOGRAPHIC OFFICER (B)	1750
DAYAL A M	TECHNICAL OFFICER (B)	1493
DE'SOUSA S N A G M	SCIENTIST EI	1596
DESA BALLON E	DIRECTOR	1560
DESA ELGAR STEPHEN	SCIENTIST EI	1597
DESAI R G PRABHU	SCIENTIST EI	1598
DESHMUKH P R	SCIENTIST EI	825
DESHMUKH S D	TECHNICAL OFFICER (B)	1494
DEV LAL CHAND	SENIOR INSTRUCTOR (EI)	1091
DEVANANDAM M	SCIENTIST C	1404
DEVARAJAN R	SCIENTIST C	1142
DEVASHRAYEE N M	SCIENTIST C	889
DEVASSY V P	SCIENTIST EII	1564
DEVI C B LALITHAMBIKA	SCIENTIST EI	1599
DEVI K SARALA	SCIENTIST C	1659
DEWAN TEJ BHAN	MECHANICAL ENGINEER (A)	1019
DEY S K	TECHNICAL OFFICER (EI)	826
DHAKATE SANJAY RANGNATE	SCIENTIST B	728
DHAMA J S	TECHNICAL OFFICER (A)	771
DHAMI T L	SCIENTIST C	609
DHAMIJA A K	TECHNICAL OFFICER (B)	956
DHANARAJAN J	SCIENTIST EI	827
DHAR AJAY	SCIENTIST C	610

NAME	DESIGNATION	BIODATA NO
DHAR PRAMILA	SCIENTIST EI	828
DHARGALKAR VINOD K	SCIENTIST C	1660
DHAWAN JAGDISH KUMAR	SCIENTIST C	611
DHAWAN S M	SCIENTIST EII	458
DHAWAN URMIL	SCIENTIST EI	493
DHILLON GURDIP SINGH	LIBRARY OFFICER (EI)	1092
DHUBKARIYA DEVI CHARAN	SCIENTIST B	957
DIAS CAROLINA F M	TECHNICAL OFFICER (B)	1751
DIAS E C A	TECHNICAL OFFICER (B)	1752
DIMRI ASHOK KUMAR	SCIENTIST EII	1069
DIWAN S G	SCIENTIST C	1661
DIXIT B B	SCIENTIST EII	808
DIXIT MADAN MOHAN	SCIENTIST EI	1331
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DONGAONKAR R R	SCIENTIST C	1143
DROLIA RAJENDRA KUMAR	SCIENTIST C	1405
DUA R L	SCIENTIST C	890
DUBE A K	TECHNICAL OFFICER (B)	958
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FERNANDES A A	SCIENTIST C	1662
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FONDEKAR SRIKANT N PAI	SCIENTIST EI	1600
GAJANAN P NAIK	SCIENTIST B	1753
GAJBHIYE SHANKAR N	SCIENTIST C	1663
GANESAN M	SCIENTIST B	960
GANJOO ASHOK KUMAR	SCIENTIST C	1144
GARG KANTA	TECHNICAL OFFICER (A)	1252
GARG P K	ASSISTANT EXECUTIVE ENGINEER (B)	729
GARG PAWAN KUMAR	TECHNICAL OFFICER (C)	1145
GARG RAKESH KUMAR	SCIENTIST C	614
GARG S C	SCIENTIST F	441
GAUR ANURUDH SINGH	TECHNICAL OFFICER (B)	1754
GAUTAM GIRISH KUMAR	SCIENTIST C	893

NAME	DESIGNATION	BIODATA NO
GENA A P	TECHNICAL OFFICER (A)	772
GEORGE M D	SCIENTIST EI	1601
GERA B S	SCIENTIST EI	497
GERA S C	SCIENTIST EI	498
GHANSHYAM C	SCIENTIST C	1146
GHOSH A B	SCIENTIST EI	499
GHOSH ANAND KRISHNA	TECHNICAL OFFICER (A)	773
GHOSH K ARVIND	SCIENTIST C	1664
GHOSH P K	SCIENTIST F	442
GHOSH SANTI KUMAR	SCIENTIST C	1406
GHOUSUZZAMAN M D	SCIENTIST A	1539
GILL SANTOKH SINGH	TECHNICAL OFFICER (A)	1253
GIRI V Y	TECHNICAL OFFICER (B)	1495
GIRIDHAR V P	SCIENTIST EI	1093
GOEL D P	SCIENTIST EII	1071
GOEL GOPAL KRISHAN	TECHNICAL OFFICER (C)	615
GOEL MAHENDRA KUMAR	SCIENTIST EI	500
GOEL PRAMOD KUMAR	SCIENTIST EI	1094
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GOVIL ANIL KUMAR	SCIENTIST EI	501
GOVIL P K	SCIENTIST EI	1332
GOVINDAN K	SCIENTIST EI	1606
GOWD THIRMANDAS NARAYAN	SCIENTIST EII	1304
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GUPTA A C	SCIENTIST EI	502
GUPTA A K	SCIENTIST EII	459
GUPTA ANIL KUMAR	SCIENTIST EII	460
GUPTA ANIL KUMAR	SCIENTIST C	620
GUPTA C P	SCIENTIST F	1292
GUPTA D	SCIENTIST C	621
GUPTA H K	DIRECTOR	1288
GUPTA H P	TECHNICAL OFFICER (B)	730
GUPTA J K	SCIENTIST C	622
GUPTA J P	TECHNICAL OFFICER (C)	894
GUPTA JAI PRAKASH	ASSOCIATE INSTRUCTOR (B)	1212
GUPTA JITENDER	TECHNICAL OFFICER (EI)	1095
GUPTA N C	TECHNICAL OFFICER (EI)	832
GUPTA OM PRAKASH	SCIENTIST C	1408
GUPTA PRABHAT K	SCIENTIST C	623
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GUPTA R P	SCIENTIST EII	809
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GUPTA SHOBHA	SCIENTIST C	895
GUPTA SHYAM MURTI	SCIENTIST C	1667
GUPTA SITA RAM	SCIENTIST C	625
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GUPTHA M V S N	SCIENTIST EI	1608
HAIDER HASAN	TECHNICAL OFFICER (A)	774
HAKEEM M A	SCIENTIST B	1497
HALDAR BIJOY KUMAR	ELECTRICAL ENGINEER (B)	963
HALDER SUJIT KUMAR	SCIENTIST EI	504
HAMID ABDUL	TECHNICAL OFFICER (A)	775
HANJURA ASHOK KUMAR	SCIENTIST EI	505
HANS G S	TECHNICAL OFFICER (B)	731
HANSRAJ ASHA	SCIENTIST B	1498
HARCHEKAR VIJAY RAJARAM	SCIENTIST C	1147
HARI K	TECHNICAL OFFICER (C)	1410
HARIDAS P	SCIENTIST C	1668
HARINARAYANA T	SCIENTIST EI	1333
HARKANTRA S N	SCIENTIST EI	1609

NAME	DESIGNATION	BIODATA NO
HASHIMI N H	SCIENTIST EI	1610
HEMAMALINI KASTURI	SCIENTIST B	1214
HIRA NAVIN CHAND	TECHNICAL OFFICER (EI)	1096
HIRA R P	TECHNICAL OFFICER (C)	1148
HODLUR G K	SCIENTIST B	1499
HUSSAIN T S MADOOM	SCIENTIST EI	1334
ILANGOVAN D	SCIENTIST B	1758
INGOLE B S	SCIENTIST C	1669
IYER SRIDHAR D	SCIENTIST C	1670
JAFRI S S H	SCIENTIST C	1411
JAGTAP T G	SCIENTIST C	1671
JAIN KIRAN	SCIENTIST C	626
JAIN ANIL PRAKASH	ASSOCIATE INSTRUCTOR (B)	1215
JAIN ATMA RAM	SCIENTIST EII	461
JAIN D C	TECHNICAL OFFICER (A)	1254
JAIN KAMLESH KUMAR	SCIENTIST EI	506
JAIN LALIT	TECHNICAL OFFICER (B)	964
JAIN MEENA	SCIENTIST B	732
JAIN P C	SCIENTIST EII	810
JAIN P K	SCIENTIST C	1149
JAIN PRADUMAN KUMAR	SCIENTIST EII	1072
JAIN RAKESH KUMAR	SCIENTIST EII	1073
JAIN S L	SCIENTIST EI	507
JAIN SHIKHAR CH	SCIENTIST EI	1335
JAIN SUBHASH CHANDER	SCIENTIST C	1150
JAIN SUKHMAL CHAND	SCIENTIST EI	508
JAIN SURESH CHAND	SCIENTIST EI	1097
JAIN SUSHIL KUMAR	SCIENTIST EI	509
JAIN Y K	SCIENTIST EI	835
JAISWAL V K	SCIENTIST C	1151
JANARDHAN T	TECHNICAL OFFICER (A)	1540
JANEJA VIRENDER SINGH	TECHNICAL OFFICER (C)	1152
JASUJA K L	SCIENTIST F	803
JASWAR JIYALAL RAM M	SCIENTIST C	1672
JAUHARI PRATIMA	SCIENTIST C	1673
JAYALAKSHMY K V	SCIENTIST C	1674
JAYARAM B	SCIENTIST B	733
JOHN THOMAS	SCIENTIST C	627
JOHRI SUBODH	SCIENTIST C	896
JOSANTO V	SCIENTIST EI	1611
JOSEPH K ANTONY	SCIENTIST C	1675
JOSEPH THRESIAMMA	SCIENTIST B	1759
JOSHI D D	MECHANICAL ENGINEER (A)	1021

NAME	DESIGNATION	BIODATA NO
JOSHI K C	SCIENTIST F	444
JOSHI L M	SCIENTIST C	897
JOSHI M G	SCIENTIST EI	1098
JOSHI MADHU SUDAN	SCIENTIST EII	1305
JOSHI S N	SCIENTIST EII	811
JUSHT M C	TECHNICAL OFFICER (C)	628
KACKER R P	SCIENTIST A	1255
KADAM A N	SCIENTIST C	1676
KALONIA R C	SCIENTIST C	1153
KALSI H S	TECHNICAL OFFICER (C)	629
KALSI VARINDER PAL SINGH	SCIENTIST EI	1099
KAMALASANAN M N	SCIENTIST EI	510
KAMAT SHRIDHAR YESHWANT	SCIENTIST EI	1612
KAMRA J R	TECHNICAL OFFICER (A)	1256
KANADE S B	SCIENTIST C	898
KANDPAL HEM CHANDRA	SCIENTIST C	630
KANJILAL A K	TECHNICAL OFFICER (B)	734
KANSAL J P	TECHNICAL OFFICER (C)	899
KAPAHI SHASHI BHUSHAN	TECHNICAL OFFICER (C)	631
KAPOOR G K	TECHNICAL OFFICER (A)	776
KAPOOR S R	MECHANICAL ENGINEER (A)	1022
KAPOOR SUNIL	SCIENTIST B	965
KAPUR PAWAN	SCIENTIST EII	812
KAPUR S S	ASSISTANT ENGINEER (A)	777
KAR JAYANTA	SCIENTIST B	735
KAR MEENAKSHI	SCIENTIST C	632
KARFA M	SCIENTIST B	736
KARISIDDAIAH S M	SCIENTIST C	1677
KARTHIGEYAN A	SCIENTIST B	966
KARTIKEYAN M V	SCIENTIST B	967
KASUMBIWAL K S	TECHNICAL OFFICER (B)	968
KATARIA K L	TECHNICAL OFFICER (C)	900
KATARIA N D	SCIENTIST EI	511
KATHURIA R S	SENIOR INSTRUCTOR (C)	1154
KAUL ATAM DARSHAN	SCIENTIST EI	1100
KAUR JASJIT	TECHNICAL OFFICER (A)	1257
KAUSHIK ASHA RANI	TECHNICAL OFFICER (B)	737
KAUSHIK SUBHASH	TECHNICAL OFFICER (A)	1023
KAZMI S M T	GARDEN SUPERINTENDENT (C)	1155
KHADGE N H	SCIENTIST C	1678
KHAIRNAR R S	SCIENTIST B	969
KHAN SULEMAN	MECHANICAL ENGINEER (A)	1024
KHANDEKAR G L	TECHNICAL OFFICER (A)	1541

NAME	DESIGNATION	BIODATA NO
KHANDUJA R S	SCIENTIST EII	462
KHANNA BRIJ MOHAN	TECHNICAL OFFICER (C)	1412
KHANNA MOHINDER PRAKASH	SCIENTIST EI	1101
KHANNA OMKAR NATH	SCIENTIST EI	512
KHANNA P K	SCIENTIST B	970
KHANNA RAMESH	TECHNICAL OFFICER (B)	1500
KHANNA RAVI	TECHNICAL OFFICER (B)	738
KHANNA RAVI MOHAN	SCIENTIST C	633
KHANNA SUNIL	SCIENTIST B	1216
KHANNA V K	SCIENTIST EI	836
KHARE NEERAJ	SCIENTIST C	634
KHARE PRAKASH	SCIENTIST EI	1336
KHULLAR F C	SCIENTIST C	635
KHULLAR S M	TECHNICAL OFFICER (C)	636
KHURANA B S	TECHNICAL OFFICER (B)	739
KISHAN HARI	SCIENTIST C	637
KISHORE L P	TECHNICAL OFFICER (B)	1501
KISHORE NAND	TECHNICAL OFFICER (B)	971
KISHORE RAM	SCIENTIST C	638
KODAGALI VIJAY N	SCIENTIST C	1679
KOHLI N K	TECHNICAL OFFICER (C)	639
KOHLI P K	TECHNICAL OFFICER (C)	640
KOHLI VIJAY KUMAR	SCIENTIST EI	513
KOTA SRINIVAS	SCIENTIST B	972
KOTHARI H S	SCIENTIST EI	837
KOTHARI PRAFULLA CHANDRA	SCIENTIST EII	463
KOTNALA K L	TECHNICAL OFFICER (B)	1760
KOTNALA R K	SCIENTIST C	641
KOTWAL CHANDAN SINGH	TECHNICAL OFFICER (C)	642
KOUSALYA M	SCIENTIST EI	1337
KOWSALYA	SCIENTIST EI	514
KRIPESH V	SCIENTIST B	973
KRISHAN KEWAL	SCIENTIST C	643
KRISHAN KEWAL	TECHNICAL OFFICER (B)	740
KRISHNA K	SCIENTIST C	1413
KRISHNA K SREE	SCIENTIST C	1680
KRISHNA M RAMA	SCIENTIST C	644
KRISHNA MAN MOHAN	SCIENTIST C	645
KRISHNA V G	SCIENTIST EII	1306
KRISHNAIAH R	TECHNICAL OFFICER (B)	1502
KRISHNAMACHARYULU R J	SCIENTIST C	1681
KRISHNAMURTHY K V	ASSISTANT EXECUTIVE ENGINEER (B)	741
KRISHNAMURTHY N S	SCIENTIST EI	1338

NAME	DESIGNATION	BIODATA NO
KRISHNAN A LAXMI	TECHNICAL OFFICER (B)	1503
KRISHNAN V	SCIENTIST B	1504
KUBSAD R B	ASSISTANT EXECUTIVE ENGINEER (B)	1761
KULKARNI R B	ASSISTANT EXECUTIVE ENGINEER (B)	1762
KULKARNI V G	SCIENTIST EI	515
KULSHRESTHA R K	SCIENTIST C	646
KUMAR AMOD	SCIENTIST C	1156
KUMAR ANIL	SCIENTIST C	901
KUMAR ANIL	SCIENTIST B	1505
KUMAR ASHOK	SCIENTIST EII	464
KUMAR BALESHWAR	SCIENTIST EI	1339
KUMAR C S PRASANNA	SCIENTIST EII	465
KUMAR CHANDRALATA RAGHU	SCIENTIST C	1682
KUMAR DEEPAK	DOCUMENTATION OFFICER (B)	1217
KUMAR K ASHOK	SCIENTIST C	1683
KUMAR LALIT	SCIENTIST EI	838
KUMAR M DILEEP	SCIENTIST C	1684
KUMAR M R RAMESH	SCIENTIST C	1685
KUMAR M RAVI	SCIENTIST B	1506
KUMAR N RAVI	SCIENTIST C	1414
KUMAR NARENDRA	SCIENTIST EII	466
KUMAR P K ASHWINI	SCIENTIST EI	516
KUMAR P K DINESH	SCIENTIST B	1763
KUMAR P N VIJAYA	SCIENTIST EI	517
KUMAR PRADEEP	SCIENTIST C	1157
KUMAR PREM	TECHNICAL OFFICER (A)	1025
KUMAR RAKESH	SCIENTIST B	1218
KUMAR RAVINDRA	TECHNICAL OFFICER (B)	1219
KUMAR S PRASANA	SCIENTIST C	1686
KUMAR S T LAKSHMI	SCIENTIST EI	518
KUMAR SANJEEV	SCIENTIST B	974
KUMAR SATISH	TECHNICAL OFFICER (B)	975
KUMAR SUDARSHAN	SCIENTIST C	647
KUMAR SUSHIL	SCIENTIST EI	1102
KUMARASWAMY B V	SCIENTIST EI	519
KUMARI L KRISHNA	SCIENTIST C	1687
KUMARI SANTOSH	SCIENTIST C	648
KUMARI V SANTHA	SCIENTIST EI	1613
KUNDU MRINMAY	SCIENTIST B	976
KUNDU N N	SCIENTIST C	902
KUNDU NAMITA	SCIENTIST C	649
KUNJAMMA P P MEENAKSHI	SCIENTIST C	1688
KUNTE PRAVIN DIMKAR	SCIENTIST B	1764

NAME	DESIGNATION	BIODATA NO
KURUP M P A	SCIENTIST C	1158
KUSHWAHA J C	TECHNICAL OFFICER (B)	1220
LAKSHMI D R	SCIENTIST EII	467
LAKSHMINARAYANA BEZWADA	SCIENTIST EI	1340
LAL CHHOTEY	SCIENTIST C	650
LAL INDER MOHAN	SCIENTIST C	1159
LAL JAGDISH	TECHNICAL OFFICER (A)	778
LAL JAI	MECHANICAL ENGINEER (A)	1026
LAL KASTURI	SCIENTIST C	651
LAL KRISHAN	SCIENTIST H	431
LAL KRISHAN	MECHANICAL ENGINEER (A)	1027
LAL MAKHAN	SCIENTIST B	1221
LAL MOHAN	SCIENTIST EI	520
LAL PIARA	MECHANICAL ENGINEER (A)	1028
LAL RATAN	SCIENTIST C	652
LAL SHREE	MECHANICAL ENGINEER (A)	1029
LAL SHYAM	SCIENTIST B	1222
LAL TARSAME	TECHNICAL OFFICER (A)	1258
LAL TRIPURARI	SCIENTIST C	653
LAMBA ONKAR SINGH	SCIENTIST B	977
LAXMAN G	TECHNICAL OFFICER (A)	1542
LOKABHARATHY P A	SCIENTIST C	1689
LUTHRA RAM KRISHAN	SCIENTIST EI	521
MADHAN R	SCIENTIST B	1765
MADHUPRATAP M	SCIENTIST EI	1614
MAGO S K	TECHNICAL OFFICER (EI)	1103
MAHAJAN G K	SENIOR DOCUMENTATION OFFICER (EI)	839
MAHAJAN K K	SCIENTIST F	445
MAHAJAN R S	SCIENTIST EII	813
MAHAJAN S K	SCIENTIST EI	522
MAHAJAN S K	SCIENTIST EI	840
MAHAJAN VIJAY VINOD	TECHNICAL OFFICER (B)	1223
MAHINDRU B S	EXECUTIVE ENGINEER (C)	1160
MAINI H K	SCIENTIST C	654
MAL NANOO	SCIENTIST C	1161
MALAIMANI E C	SCIENTIST C	1415
MALHOTRA BANSI DHAR	SCIENTIST C	655
MALHOTRA D K	TECHNICAL OFFICER (B)	1224
MALHOTRA J K	DRILLING ENGINEER (C)	1416
MALHOTRA P S	SCIENTIST EII	1074
MALHOTRA PADAM LAL	SCIENTIST EI	523
MALIK I A	TECHNICAL OFFICER (C)	656
MALL D M	SCIENTIST C	1417

NAME	DESIGNATION	BIODATA NO
MALLICK K	SCIENTIST EII	1307
MANDAL A S	SCIENTIST B	978
MANDAL SHIKHA	SCIENTIST C	657
MANDAL SUKOMAL	SCIENTIST C	1690
MANDALIA A V	TECHNICAL OFFICER (A)	1807
MANGALIK AJAY	SCIENTIST B	1507
MANJUNATH H V	SCIENTIST C	903
MANOCHA L M	SCIENTIST EI	524
MANOHAR C	TECHNICAL OFFICER (A)	1543
MANOHAR S	SCIENTIST C	1418
MANOHARAN M	TECHNICAL OFFICER (EI)	1615
MANRAI SANTOSH	SCIENTIST C	658
MARATHE PRAKASH	TECHNICAL OFFICER (B)	1766
MARU V M	SCIENTIST EII	1308
MARWAH RAKSHA	TECHNICAL OFFICER (A)	779
MASCARENHAS A	SCIENTIST C	1691
MATHEW ROY	SCIENTIST EI	841
MATHUR B P	SCIENTIST C	904
MATHUR B S	SCIENTIST G	432
MATHUR DHIRENDRA	SCIENTIST B	979
MATHUR R	SCIENTIST C	1419
MATHUR R B	SCIENTIST EI	525
MATONDKAR S G P	SCIENTIST C	1692
MAZUMDAR DEBASIS	SCIENTIST B	980
MEENA RAMAWATAR	SCIENTIST B	981
MEENASKHI K	TECHNICAL OFFICER (A)	1030
MEHLA NAHAR SINGH	SCIENTIST EI	1104
MEHROTRA RANJANA	SCIENTIST C	659
MEHROTRA RAVI	SCIENTIST EI	526
MENDIRATTA R L	TECHNICAL OFFICER (A)	780
MENEZES ANDREW A A	SCIENTIST B	1767
MENEZES M R	SCIENTIST C	1693
MESQUITA ANALIA MENEZES	SCIENTIST C	1694
MISHRA D C	SCIENTIST EII	1309
MISLANKAR P G	TECHNICAL OFFICER (A)	1808
MISRA S C KANT	SCIENTIST C	660
MISTRY ACHINTESH	TECHNICAL OFFICER (A)	1031
MITRA GAUTAM	SCIENTIST EII	1075
MITTAL M K	SCIENTIST C	661
MITTAL PRAMOD KUMAR	TECHNICAL OFFICER (B)	742
MITTAL S K	ELECTRICAL ENGINEER (B)	982
MITTAL S K	SCIENTIST C	1162
MOBIN ABDUL	SCIENTIST C	905

NAME	DESIGNATION	BIODATA NO
MOHAN INDRA	SCIENTIST EI	1341
MOHAN MAHENDRA	SCIENTIST EI	527
MOHAN PARDEEP	SCIENTIST C	662
MOHAN S N	SCIENTIST C	1163
MOHANAN V	SCIENTIST EI	528
MOHANAN V N	TECHNICAL OFFICER (B)	1768
MOHANDASS C	SCIENTIST B	1769
MOHARIR P S	SCIENTIST F	1293
MUDHOLKAR ABHAY	SCIENTIST C	1695
MUKHERJEE S K	SENIOR INSTRUCTOR (C)	1164
MUKHOPADHYAY RANADHIR	SCIENTIST C	1696
MURALEEDHARAN P M	SCIENTIST B	1770
MURALIDHARAN D	TECHNICAL OFFICER (B)	1508
MURGAI R P	SCIENTIST C	1165
MURTHY A SATYANARAYANA	SCIENTIST B	1509
MURTHY D NARASIMHA	SCIENTIST C	1420
MURTHY D SURYANARAYANA	SCIENTIST EI	1342
MURTHY E K	SCIENTIST F	1062
MURTHY G PRABHAKAR S	SCIENTIST B	1771
MURTHY K S R	SCIENTIST EI	1616
MURTHY N N	SCIENTIST B	1510
MURTHY R V ANANTHA	SCIENTIST EI	529
MURTY C S	SCIENTIST EII	1566
MURTY K CHANDRA SEKHARA	SCIENTIST EI	842
MURTY P RADHA KRISHNA	SCIENTIST EII	1310
MURTY V SURYANARAYANA	SCIENTIST C	1697
NAGABHUSHANAM P	SCIENTIST C	1421
NAGAR MADHAV RAM	SCIENTIST C	663
NAGARAJAN NANDINI N	SCIENTIST C	1422
NAGARAJAN R	SCIENTIST B	1772
NAGPAL D R	TECHNICAL OFFICER (B)	983
NAGUBAI D INDIRA	SCIENTIST C	1423
NAHAR R K	SCIENTIST EI	843
NAIDU P DIVAKAR	SCIENTIST C	1698
NAIK CHANDRAKANT GOVIND	SCIENTIST EI	1617
NAIR C P PURUSHOTHAMAN	INFORMATION OFFICER (C)	1424
NAIR K K CHANDRASEKHARAN	SCIENTIST EI	1618
NAIR R R	SCIENTIST F	1561
NAIR S R SREEKUMARAN	SCIENTIST C	1699
NAIR VIJAYLAKSHMI R	SCIENTIST EI	1619
NAKRA DEO RAJ	SCIENTIST C	664
NAMBURI R N	SCIENTIST EII	814
NAMPOOTHIRI GOVINDAN E	SCIENTIST BI	1773

NAME	DESIGNATION	BIODATA NO
NANGIA S N	SCIENTIST C	665
NANGROO S C	TECHNICAL OFFICER (B)	984
NANYASI S K	TECHNICAL OFFICER (A)	1809
NAQVI S M	SCIENTIST EII	1311
NAQVI SYED WAJIH AHMED	SCIENTIST EI	1620
NARAIN RAM	TECHNICAL OFFICER (B)	743
NARANG H P	SCIENTIST EII	468
NARASIMHAM V M L	SCIENTIST EII	1076
NARAYAN LAXMI	SCIENTIST EI	844
NARAYANA M JAYA PRAKASH	SCIENTIST B	1511
NARAYANA S	SCIENTIST EI	1343
NARAYANAN B	SCIENTIST AI	1810
NARLIKAR A V	SCIENTIST G	433
NARVEKAR PRADIP VAIKUNTH	SCIENTIST C	1700
NATARAJAN N S	SCIENTIST EI	530
NATARAJAN R	SCIENTIST EI	1344
NATARAJAN T R	SCIENTIST EI	1105
NATESAN M	SCIENTIST EI	845
NATH B NAGENDER	SCIENTIST C	1701
NATH BADRI	TECHNICAL OFFICER (A)	1259
NATH N R	TECHNICAL OFFICER (C)	1425
NATH OMKAR	SCIENTIST EI	531
NATHAN SIVAGAMI	SCIENTIST EI	1106
NAVELKAR GAJANAN S	SCIENTIST B	1774
NAYAK B U	SCIENTIST F	1562
NAYAK M RAVINDRANATH	SCIENTIST EII	1567
NAYAR R K	TECHNICAL OFFICER (C)	666
NAYYER R S	TECHNICAL OFFICER (A)	1260
NEGI J G	SCIENTIST H	1289
NEGI P S	SCIENTIST C	667
NEGI R S	TECHNICAL OFFICER (A)	1261
NEGI Y P S	TECHNICAL OFFICER (A)	781
NETRAVALKAR M G SINAI	MEDICAL OFFICER (B)	1775
NIGAM RAJIV	SCIENTIST EI	1621
NIGAM SHAILENDRA	SCIENTIST B	985
NIJHAWAN S C	SCIENTIST EI	1107
NOOR ARTI	SCIENTIST B	986
OJHA VIJAY NARAIN	SCIENTIST C	668
OKA S H	LIBRARY OFFICER (A)	1811
PACHAURI JAI PRAKASH	SCIENTIST EI	846
PADAM BALBIR SINGH	SCIENTIST EI	532
PADMAKUMARI V M	SCIENTIST C	1426
PADMINI DEVI	TECHNICAL OFFICER (A)	1812

NAME	DESIGNATION	BIODATA NO
PAHWA D R	SCIENTIST EI	533
PAIKRAO S S	SCIENTIST C	906
PANAMPUNNAYIL SARAMMA U	SCIENTIST EI	1622
PANDEY H C	SCIENTIST C	907
PANDEY LAKSHMI	TECHNICAL OFFICER (A)	1262
PANDEY OM PRAKASH	SCIENTIST EI	1345
PANDEY V K	SCIENTIST C	669
PANIGRAHI S P	TECHNICAL OFFICER (A)	1544
PANKAJAKSHAN P	TECHNICAL OFFICER (C)	1427
PANKAJAKSHAN T	SCIENTIST B	1776
PANT B D	SCIENTIST C	908
PANT KAVINDRA	SCIENTIST C	909
PANT RAJENDRA PRASAD	SCIENTIST B	744
PANTHI KISHOR K	SCIENTIST B	1225
PANTULU G VENKATACHALAM	SCIENTIST C	1428
PANTULU K P	SCIENTIST A	1545
PANWAR O S	SCIENTIST C	670
PANWAR V S	SCIENTIST C	671
PARAMESWARAN P S	SCIENTIST C	1702
PARASHAR D C	SCIENTIST F	446
PARLEKAR S D	SCIENTIST EI	847
PAROPKARI ANIL L	SCIENTIST EI	1623
PARTHASARATHI S	TECHNICAL OFFICER (C)	672
PARULEKAR A H	SCIENTIST EII	1568
PASRICHA P L	SCIENTIST C	910
PASRICHA PRADEEP KUMAR	SCIENTIST EI	534
PATHAK B C	TECHNICAL OFFICER (A)	1032
PATHAK D B	SCIENTIST B	1777
PATHAK H C	TECHNICAL OFFICER (A)	1033
PATHAK M C	TECHNICAL OFFICER (B)	1778
PATHANIA DHARAM SINGH	SCIENTIST EII	1077
PATNEY A K	TECHNICAL OFFICER (C)	911
PATTAN J N	SCIENTIST C	1703
PAUL ASHOK KUMAR	SCIENTIST C	1166
PAULINOSE V T	SCIENTIST EI	1624
PAWHA R S	TECHNICAL OFFICER (A)	1034
PESHWE VANI B	SCIENTIST BI	1779
PETER K J	SCIENTIST EI	1625
PETER S JOSIAH	SCIENTIST EI	1346
PHUKAN M D	TECHNICAL OFFICER (EI)	1108
PHULL S K	SCIENTIST EII	469
PIR H K	SCIENTIST C	1167
PODDAR H N P	SCIENTIST EI	535

NAME	DESIGNATION	BIODATA NO
PODDAR MATHURES	SCIENTIST F	1294
POORANI S ANNA	SCIENTIST C	912
PRABHAKAR R	TECHNICAL OFFICER (B)	987
PRADHAN M M	SCIENTIST EII	470
PRAKASAM K SURYA	SCIENTIST B	1512
PRAKASH KIRTI	TECHNICAL OFFICER (C)	913
PRAKASH KULDIP	SCIENTIST EI	1109
PRAKASH M RAVI	SCIENTIST C	1429
PRAKASH OM	SCIENTIST EI	536
PRAKASH PREM	TECHNICAL OFFICER (B)	745
PRASAD B RAJENDRA	SCIENTIST EI	1347
PRASAD BASUDEO	SCIENTIST EII	1078
PRASAD C R	SCIENTIST C	1168
PRASAD C R K	SCIENTIST C	914
PRASAD DWARKA	TECHNICAL OFFICER (A)	1035
PRASAD GANDIKOTA	SCIENTIST EI	848
PRASAD GANGA	SCIENTIST C	673
PRASAD K SYAMA	SCIENTIST C	1430
PRASAD M V S N	SCIENTIST C	674
PRASAD N P RAJENDER	SCIENTIST C	1431
PRASAD P BHANU	SCIENTIST EI	849
PRASAD P P	SCIENTIST C	1432
PRASAD S J D VARA	SCIENTIST C	1704
PRASAD S M SHIVA	SCIENTIST C	675
PRASAD S N	SCIENTIST EI	1348
PRASAD SATESHWAR	MECHANICAL ENGINEER (A)	1036
PRASAD SHARDA	SCIENTIST EI	850
PRASAD T RAMA MOHAN	SCIENTIST EII	1312
PREMKUMAR M K	TECHNICAL OFFICER (A)	1813
PUNTAMBEKAR P N	SCIENTIST EI	537
PUSHPANGADAN T R	TECHNICAL OFFICER (A)	782
PYLEE ABRAHAM	TECHNICAL OFFICER (B)	1780
PYNE DILIP	SCIENTIST C	915
RADHAKRISHNA INDUGULA	SCIENTIST EII	1313
RADHAKRISHNAN A N	SCIENTIST B	1226
RAGHAVENDRA T	SCIENTIST EI	851
RAGHUKUMAR S	SCIENTIST C	1705
RAGHUNATH S	SCIENTIST EI	852
RAGHUNATHAN R	SCIENTIST C	1169
RAHEJA JAGDISH LAL	SCIENTIST B	988
RAHMAN M A	ASSISTANT EXECUTIVE ENGINEER (B)	1513
RAI RAMJI	SCIENTIST EI	538
RAI SHIVENDRA NATH	SCIENTIST EI	1349

NAME	DESIGNATION	BIODATA NO
RAI SHYAM SUNDER	SCIENTIST EI	1350
RAINA M K	SCIENTIST EI	539
RAIZADA SANJAY	SCIENTIST B	746
RAJ BALDEV	SCIENTIST C	1170
RAJAGOPAL M D	SCIENTIST EI	1626
RAJENDRAN A	SCIENTIST EI	1627
RAJPUT SHER SINGH	SCIENTIST C	676
RAJU K A KAMESH	SCIENTIST C	1706
RAJU L V SUBBA	SCIENTIST EI	1628
RAJU R S	SCIENTIST EI	853
RAJU S	SCIENTIST B	1514
RAM GHISA	MECHANICAL ENGINEER (A)	1037
RAM GURMEJ	SCIENTIST EI	540
RAM MANSHA	SCIENTIST B	747
RAM NATHAI	SCIENTIST EI	1110
RAM R S	SCIENTIST EI	541
RAM SITA	TECHNICAL OFFICER (B)	1227
RAM SOBHA	TECHNICAL OFFICER (B)	989
RAMACHANDRA C	SCIENTIST EI	854
RAMACHANDRAN RAMA DEVI	SCIENTIST EI	542
RAMAGOPAL S V	SCIENTIST C	1171
RAMAIAH N	SCIENTIST C	1707
RAMAKRISHNA B	TECHNICAL OFFICER (B)	1515
RAMAKRISHNAN K V	SCIENTIST F	804
RAMAMURTHY K	TECHNICAL OFFICER (EI)	855
RAMAMURTHY MOHANA	SCIENTIST EII	1079
RAMAN VASANTHA	SCIENTIST C	677
RAMANA D V	SCIENTIST C	1433
RAMANA M V	SCIENTIST EI	1629
RAMANAMURTY T V	SCIENTIST C	1708
RAMANAMURTY Y V	SCIENTIST EII	471
RAMARAO S V SRI	SCIENTIST EI	1351
RAMASWAMY V	SCIENTIST C	1709
RAMAYYA B D	SCIENTIST C	1434
RAMBABU H V	SCIENTIST EI	1352
RAMCHANDRA Y M	SCIENTIST B	1516
RAMESH D S	SCIENTIST C	1435
RAMNARAO M V	RESIDENCE MEDICAL OFFICER (C)	1436
RAMPRASAD T	SCIENTIST C	1710
RANA BIR PAL SINGH	TECHNICAL OFFICER (A)	1546
RANA K S	TECHNICAL OFFICER (C)	916
RANADE GOVIND H	SCIENTIST C	1711
RANDHAWA SARUP SINGH	SCIENTIST C	1172

NAME	DESIGNATION	BIODATA NO
RANGANATH M KUSUMA	TECHNICAL OFFICER (B)	1517
RANGARAJAN R	SCIENTIST C	1437
RANGRA KAMALJIT	SCIENTIST B	990
RAO A V RAMANA	SCIENTIST EI	1353
RAO B PRABHAKARA	SCIENTIST C	1712
RAO B RAMALINGESWARA	SCIENTIST C	1438
RAO C JAGANNADHA	SCIENTIST C	1173
RAO C V RAMAKRISHNA	SCIENTIST C	1439
RAO CH MADHUSUDANA	SCIENTIST EII	1569
RAO CH RAMA	SCIENTIST EI	1354
RAO D ATCHUTA	SCIENTIST EII	1314
RAO D PANAKALA	SCIENTIST EII	1570
RAO D S BHASKARA	SCIENTIST EI	1355
RAO D V SUBBA	SCIENTIST EI	1356
RAO D V SUBBA	SCIENTIST C	1440
RAO DASARI GOPALA	SCIENTIST EI	1630
RAO E HANUMANTHA	SCIENTIST C	1441
RAO G KESAVA	SCIENTIST C	1442
RAO G S TRIVIKRAMA	SCIENTIST C	917
RAO G SURYAPRAKASA	SCIENTIST A	1547
RAO G V S POORNACHANDRA	SCIENTIST EI	1357
RAO G VENKATESHWAR	SCIENTIST EI	1358
RAO I B P	SCIENTIST EI	1359
RAO J M	SCIENTIST EI	1360
RAO K KAMESWARA	SCIENTIST EI	1631
RAO K MOHANA	SCIENTIST B	1781
RAO K N NAGABHUSHANA	SCIENTIST C	1443
RAO K PRABHAKAR	SCIENTIST C	1444
RAO K S NAGABHUSHANA	SCIENTIST EI	856
RAO L V GANGADHARA	SCIENTIST EII	1571
RAO M JAYARAMA	TECHNICAL OFFICER (B)	1518
RAO M M MALLESWARA	SCIENTIST C	1713
RAO M NAGESWARA	SCIENTIST EI	1361
RAO M R K PRABHAKRA	SCIENTIST C	1445
RAO M RANGA	TECHNICAL OFFICER (B)	1519
RAO M RATNAGIRI	SCIENTIST C	1446
RAO M SITARAM	SCIENTIST C	1447
RAO M V M SATYANARYANA	SCIENTIST EI	1362
RAO MADHUSUDANA	SCIENTIST B	1520
RAO MUTNURI SOMESWARA	SCIENTIST C	1448
RAO N MADHAVA	SCIENTIST EI	1363
RAO N PURNACHANDRA	SCIENTIST B	1521
RAO P KOTESWARA	SCIENTIST C	1449

NAME	DESIGNATION	BIODATA NO
RAO P KRISHNA	SCIENTIST C	1174
RAO P PRASADA	SCIENTIST A	1548
RAO P RAMA	SCIENTIST EI	1364
RAO P SUDHAKARA	SCIENTIST EI	857
RAO P V S S DURGA PRASADA	SCIENTIST B	1782
RAO PRATTIPATI SIVASANKARA	SCIENTIST C	1714
RAO R K MOHAN	SCIENTIST EII	1080
RAO R UMAMAHESHWARA	SCIENTIST EI	1365
RAO S NAGESWARA	SCIENTIST C	1450
RAO S U M	SCIENTIST EI	543
RAO S V V PRASADA	SCIENTIST C	1451
RAO SUDHA V M	SCIENTIST B	1228
RAO SURYAVANSHI A K	SCIENTIST C	1715
RAO T C S	SCIENTIST EII	1572
RAO T G	SCIENTIST EI	1366
RAO T G	SCIENTIST A	1549
RAO T V NARASIMHA	SCIENTIST C	1716
RAO T VENKATESWARA	SCIENTIST C	1452
RAO V ANANDA	SCIENTIST C	1453
RAO V DIVAKARA	SCIENTIST EII	1315
RAO V K	SCIENTIST C	1454
RAO V P	SCIENTIST C	1717
RAO V V S GURUNADHA	SCIENTIST EI	1367
RAO V VIJAYA	SCIENTIST C	1455
RAO Y J BHASKAR	SCIENTIST EI	1368
RAO Y N T SESHAGIRI	SCIENTIST C	1456
RAO Y PURNACHANDRA	SCIENTIST EI	1369
RASHMI	SCIENTIST C	678
RASTOGI ALOK CHANDRA	SCIENTIST EII	472
RASTOGI BAL KRISHNA	SCIENTIST EII	1316
RATHOD P VIJAYAKUMAR	SCIENTIST C	1718
RATHOR B S	SCIENTIST EI	1370
RATHORE M S	TECHNICAL OFFICER (B)	991
RAUTHAN C M S	SCIENTIST B	992
RAVAL U	SCIENTIST EII	1317
RAVEENDRAN O	SCIENTIST A	1814
RAVEENDRAN T V	SCIENTIST B	1783
RAY D J	TECHNICAL OFFICER (B)	993
REDDI B V	SCIENTIST EI	544
REDDY B SHANKER	SCIENTIST EI	1371
REDDY D VENKAT	SCIENTIST B	1522
REDDY G KOTI	SCIENTIST C	1457
REDDY G L N	SCIENTIST B	1523

NAME	DESIGNATION	BIODATA NO
REDDY G RANGA	SCIENTIST EI	1372
REDDY G VENKATA	SCIENTIST C	1719
REDDY K N SRINATHA	SCIENTIST EI	1373
REDDY NALLA PURNA CHANDER	SCIENTIST C	1720
REDDY P MOHAN	SCIENTIST CI	1458
REDDY P RAMACHANDRA	SCIENTIST EII	1318
REDDY P V L	SCIENTIST B	994
REDDY R PEDDY	TECHNICAL OFFICER (A)	1550
REDDY S I	SCIENTIST EII	1319
REDDY V JANARDHANA	TECHNICAL OFFICER (A)	1551
REDDY Y SHOWRI	SCIENTIST EI	545
REVICHANDRAN C	SCIENTIST B	1784
ROONWAL VEENA	TECHNICAL OFFICER (C)	679
ROY B K	TECHNICAL OFFICER (B)	748
ROYAN JOSEPH P	SCIENTIST EI	1632
ROYAN SUMITRA	SCIENTIST EII	1573
RUNTHALA D P	SCIENTIST EI	858
RUSTAGI VIJAY KUMAR	SCIENTIST EI	546
SABHARWAL J S	SCIENTIST C	1175
SABNIS M M	SCIENTIST C	1721
SACHDEVA D S	TECHNICAL OFFICER (B)	749
SACHDEVA R S	MECHANICAL ENGINEER (B)	1229
SACHDEVA VED PRAKASH	SCIENTIST C	680
SADDAR KAMAL	TECHNICAL OFFICER (B)	995
SADHURAM Y	SCIENTIST C	1722
SADISTAP S SHASHIKANT SURESH	SCIENTIST B	996
SAGGU SUKHDEV SINGH	SCIENTIST CI	1176
SAHOO PADMA CHARAN	MECHANICAL ENGINEER (A)	1038
SAHOTA S S	SCIENTIST C	1177
SAI M V R S	TECHNICAL OFFICER (C)	1459
SAINI K K	SCIENTIST C	681
SAINI S P S	SCIENTIST EI	859
SAINI SHANKAR LAL	MECHANICAL ENGINEER (A)	1039
SAKSENA RAKESH CHANDRA	SCIENTIST EI	547
SAMANTA SATYA BRATA	TECHNICAL OFFICER (B)	750
SANGWAN K S	SCIENTIST EI	860
SANKARAN S	SCIENTIST C	1460
SANKARANARAYANAN P E	SCIENTIST G	800
SANKARANARAYANAN V N	SCIENTIST EII	1574
SANMATI MIRJI	SCIENTIST B	997
SANZGIRY SUJATA	SCIENTIST C	1723
SARAF P D	SCIENTIST EII	1320
SARAN A K	SCIENTIST B	1785

NAME	DESIGNATION	BIODATA NO
SARASWAT S C	SCIENTIST EII	815
SARATCHANDRA K	TECHNICAL OFFICER (B)	1524
SARDANA HARISH KUMAR	SCIENTIST C	1178
SARDESAI SUGANDHA D	SCIENTIST C	1724
SARKAR AJIT KUMAR	SCIENTIST EI	548
SARKAR ANUPAM	SCIENTIST B	1786
SARKAR DIPANKAR	SCIENTIST EI	1374
SARKAR S K	SCIENTIST EII	473
SARKAR SWAPAN KUMAR	SCIENTIST EI	549
SARMA A S VISWANADHA	SCIENTIST C	918
SARMA A SADASIVA	SCIENTIST B	998
SARMA B S P	SCIENTIST EI	1375
SARMA C S P	SCIENTIST B	1525
SARMA D D	SCIENTIST EII	1321
SARMA G BALAKRISHNA	TECHNICAL OFFICER (A)	1552
SARMA G S	SCIENTIST EI	1376
SARMA J R K	SCIENTIST C	1461
SARMA K R	DIRECTOR	1057
SARMA K V L N S	SCIENTIST B	1787
SARMA L PRABHAKARA	SCIENTIST C	1462
SARMA M PURUSHOTHAMA	SCIENTIST C	1463
SARMA M S R S	SCIENTIST EI	1111
SARMA M S S	SCIENTIST C	1725
SARMA M SURYA NARAYANA	TECHNICAL OFFICER (A)	1553
SARMA M V CHALAPATHI	TECHNICAL OFFICER (B)	1526
SARMA P V S S R	SCIENTIST A	1815
SARMA S B S S	SCIENTIST F	447
SARMA S V S	SCIENTIST EII	1322
SARMA SUBRATA DAS	SCIENTIST B	1527
SARMA V N	SCIENTIST EI	1377
SARMA V SUBRAHMANYA	SCIENTIST C	1464
SARMA V V	SCIENTIST EI	1633
SARMA V Y N	SCIENTIST B	1528
SARMA Y V B	SCIENTIST C	1726
SARUPRIA JASWANT SINGH	SCIENTIST EI	1634
SASTRY R SIVA RAMA	SCIENTIST EI	1378
SASTRY T S	SCIENTIST EI	1379
SATHE P V	SCIENTIST EI	1635
SATHYABALA S P	SCIENTIST C	1465
SATPATHY B N	SCIENTIST C	1466
SATYANARAYANA H V S	SCIENTIST B	1529
SAWANT S S	SCIENTIST B	1788
SAWKAR KALIDAS	SCIENTIST B	1789

NAME	DESIGNATION	BIODATA NO
SAXENA ANIL KISHORE	SCIENTIST C	682
SAXENA G M	SCIENTIST EI	550
SAXENA MITHLESH	SCIENTIST C	683
SAXENA RAJAN BABU	SCIENTIST EI	551
SAXENA SUBHAS	SCIENTIST A	1554
SAXENA T K	SCIENTIST C	684
SAXENA V K	SCIENTIST C	1467
SEHGAL VIJAY	TECHNICAL OFFICER (C)	1179
SEKHAR T CHANDRA	SCIENTIST C	1468
SELVAM A PANNEER	TECHNICAL OFFICER (B)	1790
SELVARAJ J B	SCIENTIST C	1469
SENGAR ANURADHA	SCIENTIST B	999
SENGUPTA A	SCIENTIST EI	552
SENGUPTA R N	SCIENTIST EI	1112
SESHAGIRI G RAMA	SCIENTIST B	1530
SESHUNARAYANA T	SCIENTIST EI	1380
SETHI NARENDRA KUMAR	SCIENTIST C	685
SETHI R K	SUPERINTENDING ENGINEER (C)	919
SHAH C H	SCIENTIST C	920
SHAH O P	STATISTICAL OFFICER (A)	1040
SHAILAJA M S	SCIENTIST B	1791
SHAKER D V CHANDER	SCIENTIST B	1792
SHAMSHI M A	SCIENTIST F	1063
SHANKAR C	SCIENTIST A	1555
SHANKARAIAH M	TECHNICAL OFFICER (A)	1556
SHANKER VIRENDRA	SCIENTIST EI	553
SHARDA S K	TECHNICAL OFFICER (B)	751
SHARMA A K	SCIENTIST C	921
SHARMA ANIL KUMAR	SCIENTIST C	1180
SHARMA ARUNA	SCIENTIST EI	861
SHARMA ASHA	SCIENTIST EI	862
SHARMA B G	TECHNICAL OFFICER (A)	1041
SHARMA B N	ASSISTANT ENGINEER (B)	1000
SHARMA BALKISHOR	SCIENTIST C	1181
SHARMA BALRAM	SCIENTIST B	1230
SHARMA BEHARI LAL	SCIENTIST EII	1081
SHARMA BIPAN DEV	SCIENTIST EI	1113
SHARMA C P	SCIENTIST EI	554
SHARMA D D	TECHNICAL OFFICER (B)	1231
SHARMA D M K	TECHNICAL OFFICER (EI)	863
SHARMA D R	SCIENTIST EI	555
SHARMA DHARAM BIR	TECHNICAL OFFICER (A)	783
SHARMA DINESH CHANDRA	SCIENTIST EI	556

NAME	DESIGNATION	BIODATA NO
SHARMA G K	SCIENTIST C	922
SHARMA J C	SCIENTIST C	686
SHARMA J D	SCIENTIST B	1232
SHARMA J P	TECHNICAL OFFICER (B)	1001
SHARMA JAGDISH PRASAD	TECHNICAL OFFICER (A)	784
SHARMA K S	TECHNICAL OFFICER (C)	923
SHARMA KALYAN SAHAI	MECHANICAL ENGINEER (A)	1042
SHARMA M C	SCIENTIST EI	557
SHARMA M K	SCIENTIST C	924
SHARMA M P	MECHANICAL ENGINEER (C)	925
SHARMA MITTHAN LAL	SCIENTIST C	687
SHARMA NAVNEET KUMAR	SCIENTIST C	1182
SHARMA O P	TECHNICAL OFFICER (A)	785
SHARMA OMKAR	SCIENTIST EI	558
SHARMA P N	TECHNICAL OFFICER (EI)	1381
SHARMA PRASHANT	TECHNICAL OFFICER (A)	1816
SHARMA R	L M O (B)	1002
SHARMA R G	SCIENTIST EII	474
SHARMA R K	SCIENTIST B	752
SHARMA R S	SCIENTIST EI	559
SHARMA R V	SCIENTIST C	1727
SHARMA RAHUL K	SCIENTIST C	1728
SHARMA S K	SCIENTIST F	448
SHARMA S K	SCIENTIST A	1263
SHARMA S M	SCIENTIST EI	864
SHARMA S M	INFORMATION OFFICER (EI)	1114
SHARMA S P	TECHNICAL OFFICER (A)	786
SHARMA S P	TECHNICAL OFFICER (B)	1793
SHARMA S R	SCIENTIST C	1470
SHARMA SHAM LAL	TECHNICAL OFFICER (B)	753
SHARMA SUNDER LAL	SCIENTIST B	1233
SHARMA SURINDER DUTT	SCIENTIST C	688
SHARMA SUSHIL KUMAR	SCIENTIST C	689
SHARMA T R	TECHNICAL OFFICER (A)	1043
SHARMA U C	SCIENTIST EI	865
SHARMA V P	TECHNICAL OFFICER (B)	1234
SHARMA VINOD KUMAR	SCIENTIST EII	1082
SHARMA VISHNU DATT	TECHNICAL OFFICER (A)	787
SHASTRI SHASHI KALA	TECHNICAL OFFICER (B)	754
SHEKHAR CHANDRA	SCIENTIST EI	866
SHEKHAWAT RAJVEER SINGH	SCIENTIST EI	867
SHEKHAWAT S S	SCIENTIST C	926
SHENOI S S C	SCIENTIST C	1729

NAME	DESIGNATION	BIODATA NO
SHENOY NIRMALA	SCIENTIST C	927
SHETYE SATISH R	SCIENTIST EII	1575
HIRODKAR PRABHAKAR V	SCIENTIST B	1794
SHYAM RADHEY	TECHNICAL OFFICER (A)	1044
SHYAMPRASAD M	SCIENTIST C	1730
SIAN D S	SENIOR INSTRUCTOR (C)	1183
SIDDIQUE MOHD	TECHNICAL OFFICER (A)	1264
SIDHU H S	TECHNICAL OFFICER (EI)	1115
SIKAND RAJIV	TECHNICAL OFFICER (A)	788
SINGBAL S Y S	SCIENTIST EII	1576
SINGH AMARJIT	TECHNICAL OFFICER (B)	1235
SINGH AMRIK	SCIENTIST EI	868
SINGH ANAND PRAKASH	SCIENTIST B	1531
SINGH AVTAR	MECHANICAL ENGINEER (EI)	869
SINGH AWATAR	SCIENTIST EII	816
SINGH B R	SCIENTIST EII	817
SINGH BALWINDER	TECHNICAL OFFICER (B)	1236
SINGH BANT	TECHNICAL OFFICER (B)	1237
SINGH BHANU PRATAP	SCIENTIST EI	560
SINGH BIJENDRA	SCIENTIST C	1471
SINGH BIRBAL	TECHNICAL OFFICER (A)	1045
SINGH C P	TECHNICAL OFFICER (C)	690
SINGH CHARAN	TECHNICAL OFFICER (A)	1265
SINGH D D	SCIENTIST C	1472
SINGH DARSHAN	TECHNICAL OFFICER (A)	1266
SINGH DEVENDRA	SCIENTIST EI	561
SINGH DEVINDER	TECHNICAL OFFICER (B)	1238
SINGH DHANWANT	TECHNICAL OFFICER (B)	1239
SINGH DHARAM JIT	ASSISTANT ENGINEER (A)	1267
SINGH DIDAR	TECHNICAL OFFICER (A)	789
SINGH FATEH	MECHANICAL ENGINEER (EI)	870
SINGH G S	SCIENTIST C	1184
SINGH GURDAS	MECHANICAL ENGINEER (A)	1268
SINGH GURDEV	SENIOR INSTRUCTOR (C)	1185
SINGH GURDIAL	TECHNICAL OFFICER (B)	755
SINGH GURIQBAL	TECHNICAL OFFICER (A)	1269
SINGH GURUDIAL	MECHANICAL ENGINEER (A)	1046
SINGH H B	TECHNICAL OFFICER (A)	790
SINGH H R	SCIENTIST EI	871
SINGH HARBANS	TECHNICAL OFFICER (B)	1240
SINGH HARDEEP	SCIENTIST B	1241
SINGH HARJINDER	TECHNICAL OFFICER (A)	1270
SINGH INDERJIT	DRILLING ENGINEER (C)	1473

NAME	DESIGNATION	BIODATA NO
SINGH J K	SCIENTIST EI	872
SINGH JAGIR	SCIENTIST A	1271
SINGH JAGMAL	MECHANICAL ENGINEER (B)	1003
SINGH JANARDAN	SCIENTIST EI	562
SINGH JASWANT	TECHNICAL OFFICER (A)	791
SINGH JIWAN	MECHANICAL ENGINEER (A)	1047
SINGH JOGA	SCIENTIST B	1242
SINGH JOGINDER	SCIENTIST EI	563
SINGH JOT	MECHANICAL ENGINEER (A)	1048
SINGH KARNAIL	TECHNICAL OFFICER (B)	756
SINGH KULDIP	SENIOR INSTRUCTOR (C)	1186
SINGH KULVINDER	SCIENTIST EI	1116
SINGH LAKHA	SCIENTIST EI	564
SINGH LALL	SCIENTIST B	1243
SINGH M P	TECHNICAL OFFICER (B)	1244
SINGH MAHAVIR	SCIENTIST B	757
SINGH MANDROOP	MECHANICAL ENGINEER (A)	1049
SINGH MEWA	SCIENTIST C	691
SINGH MOHINDER PAL	SCIENTIST C	928
SINGH MULAYAM	SCIENTIST C	929
SINGH NAIB	SCIENTIST B	758
SINGH NARENDRA BAHADUR	SCIENTIST C	930
SINGH NARINDER	SCIENTIST A	1272
SINGH NAVTEJ	SCIENTIST C	1187
SINGH NISHAN	TECHNICAL OFFICER (A)	1273
SINGH ONKAR	MECHANICAL ENGINEER (A)	1050
SINGH PARAKRAM KUMAR	SCIENTIST C	692
SINGH PREM	TECHNICAL OFFICER (B)	1245
SINGH PRITAM	MECHANICAL ENGINEER (A)	1051
SINGH PRITAM	TECHNICAL OFFICER (B)	1246
SINGH PUKHRAJ	SCIENTIST B	1004
SINGH R N	SCIENTIST EI	873
SINGH RAGHBIR	SCIENTIST A	1274
SINGH RAJ	SCIENTIST C	693
SINGH RAJ	SCIENTIST C	931
SINGH RAJBIR	SCIENTIST B	1005
SINGH RAMA SHANKAR	TECHNICAL OFFICER (C)	694
SINGH RAMADHAR	SCIENTIST C	695
SINGH RAMVIR	TECHNICAL OFFICER (A)	1052
SINGH RANJIT	SCIENTIST C	696
SINGH RANJIT	SCIENTIST C	1188
SINGH RANJIT	TECHNICAL OFFICER (B)	1247
SINGH RISAL	SCIENTIST B	759

NAME	DESIGNATION	BIODATA NO
SINGH RISHI NARAIN	SCIENTIST F	1295
SINGH S B	SCIENTIST C	1474
SINGH SAJJAN	TECHNICAL OFFICER (A)	1275
SINGH SANTOKH	MECHANICAL ENGINEER (A)	1276
SINGH SATBIR	SCIENTIST C	697
SINGH SATNAM	TECHNICAL OFFICER (EI)	1117
SINGH SATNAM	SCIENTIST A	1277
SINGH SHIV NATH	SCIENTIST EI	565
SINGH SURJIT	MECHANICAL ENGINEER (A)	1278
SINGH TARA	TECHNICAL OFFICER (A)	1279
SINGH TRILOCHAN	INDUSTRIAL LIAISON OFFICER (EI)	874
SINGH V V PRASAD	SCIENTIST C	932
SINGH VED	SCIENTIST C	698
SINGH VED RAM	SCIENTIST EII	475
SINGH VIJAY SHANKAR	SCIENTIST EI	1382
SINGH YESH PAL	SCIENTIST C	699
SINGHAL RAGHUNANDAN PRASAD	SCIENTIST EII	476
SINGHAL SUBODH KUMAR	SCIENTIST C	700
SINGHAL SUNIL KUMAR	SCIENTIST C	701
SINGLA MADAN LAL	SCIENTIST EI	1118
SINHA G D J SIVAKUMAR	SCIENTIST EI	1383
SIRCAR B	TECHNICAL OFFICER (B)	760
SITARAM P	TECHNICAL OFFICER (C)	1475
SIVADAS P	SCIENTIST EII	1577
SIVARAM P	SCIENTIST C	702
SIVARAMAN T V	SCIENTIST C	1476
SODHI K S	TECHNICAL OFFICER (A)	1280
SODHI KULJIT	SCIENTIST C	1189
SOM JNANENDRA NATH	SCIENTIST EI	566
SOMAYAJULU Y KRISHNA	SCIENTIST C	1731
SOMVANSHI V K	SCIENTIST B	1532
SONANIA M C	ELECTRICAL & MECHANICAL ENGINEER (C)	933
SONAWANE A V	TECHNICAL OFFICER (A)	1817
SONI J B	TECHNICAL OFFICER (B)	1006
SONI R N	TECHNICAL OFFICER (A)	1053
SONI VIKRAM	UGC RES SCIENTIST C	703
SOOD S C	SCIENTIST EI	875
SOOD VIRENDRA PRAKASH	TECHNICAL OFFICER (B)	1248
SOOTHA G D	SCIENTIST EI	567
SRIDHAR A R	TECHNICAL OFFICER (B)	1533
SRIDHAR R	SCIENTIST C	934
SRINAGESH D	SCIENTIST B	1534
SRINIVAS M S N	SCIENTIST C	1190

NAME	DESIGNATION	BIODATA NO
SRINIVASAN R	SCIENTIST EI	1384
SRIVASTAVA ASHOK	SCIENTIST C	935
SRIVASTAVA KIRTI	SCIENTIST B	1535
SRIVASTAVA NAVIN KUMAR	SCIENTIST C	704
SRIVASTAVA SWARAJ	SCIENTIST C	936
SRIVASTAVA VISHNU	SCIENTIST EI	876
SRIVATSA K M K	SCIENTIST B	1007
STEPHEN ROSAMMA	SCIENTIST EI	1636
SUBBARAO M V	SCIENTIST C	1477
SUBHARWAL I M	SCIENTIST EI	877
SUBRAHMANYAM A S	SCIENTIST C	1732
SUBRAHMANYAM CHALLA	SCIENTIST EI	1385
SUBRAHMANYAM K	SCIENTIST EI	878
SUBRAHMANYAM K	SCIENTIST EI	1386
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